



SEQUENCE LISTING

<110> ASTRAZENCA AB and DYAX CORP.
Christer NORDSTEDT
Tom GOLDSCHMIDT
Maria HENDERIKX
Rene HOET
Hendricus HOOGENBOOM
Simon HUFTON
Christin V. ANDERSSON
Johanna LINDQUIST
Dan SUNNEMARK
Sergy LEONOV

<120> ANTIBODIES BINDING TO A C-TERMINAL FRAGMENT OF APOLIPOPROTEIN E

<130> 117-580 / N.90271E

<140> US 10/579,445

<141> 2006-10-04

<150> PCT/EP2004/013426

<151> 2004-11-26

<150> US 60/525,174

<151> 2003-11-28

<160> 527

<170> MS Word

<210> 1

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1

Ala Arg Met Glu Glu Met Gly Ser Arg Thr Arg Asp Arg Leu Asp Glu
1 5 10 15

Val Lys Glu Gln Val Ala Glu Val Arg Ala Lys Leu Glu Glu Gln Ala
20 25 30

Gln Gln Ile Arg Leu Gln Ala Glu Ala Phe Gln Ala Arg Leu Lys Ser
35 40 45

Trp Phe Glu Pro Leu Val Glu Asp Met Gln Arg Gln Trp Ala Gly Leu
50 55 60

Val Glu Lys Val Gln Ala Ala Val Gly Thr Ser Ala Ala Pro Val Pro
65 70 75 80

Ser Asp Asn His

<210> 2
<211> 16
<212> PRT
<213> Homo sapiens

<400> 2

Ala Arg Met Glu Glu Met Gly Ser Arg Thr Arg Asp Arg Leu Asp Glu
1 5 10 15

<210> 3
<211> 16
<212> PRT
<213> Homo sapiens

<400> 3

Val Lys Glu Gln Val Ala Glu Val Arg Ala Lys Leu Glu Glu Gln Ala
1 5 10 15

<210> 4
<211> 16
<212> PRT
<213> Homo sapiens

<400> 4

Gln Gln Ile Arg Leu Gln Ala Glu Ala Phe Gln Ala Arg Leu Lys Ser
1 5 10 15

<210> 5
<211> 16
<212> PRT
<213> Homo sapiens

<400> 5

Trp Phe Glu Pro Leu Val Glu Asp Met Gln Arg Gln Trp Ala Gly Leu
1 5 10 15

<210> 6
<211> 16
<212> PRT
<213> Homo sapiens

<400> 6

Val Glu Lys Val Gln Ala Ala Val Gly Thr Ser Ala Ala Pro Val Pro
1 5 10 15

<210> 7
<211> 16

<212> PRT
<213> Homo sapiens

<400> 7

Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val
1 5 10 15

<210> 8
<211> 16
<212> PRT
<213> Homo sapiens

<400> 8

Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu
1 5 10 15

<210> 9
<211> 16
<212> PRT
<213> Homo sapiens

<400> 9

Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp
1 5 10 15

<210> 10
<211> 16
<212> PRT
<213> Homo sapiens

<400> 10

Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val
1 5 10 15

<210> 11
<211> 12
<212> PRT
<213> Homo sapiens

<400> 11

Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
1 5 10

<210> 12
<211> 8
<212> PRT
<213> Homo sapiens

<400> 12

Leu Val Glu Asp Met Gln Arg Gln
1 5

<210> 13

<211> 8

<212> PRT

<213> Homo sapiens

<400> 13

Met Gln Arg Gln Trp Ala Gly Leu
1 5

<210> 14

<211> 8

<212> PRT

<213> Homo sapiens

<400> 14

Trp Ala Gly Leu Val Glu Lys Val
1 5

<210> 15

<211> 8

<212> PRT

<213> Homo sapiens

<400> 15

Arg Thr Arg Asp Arg Leu Asp Glu
1 5

<210> 16

<211> 8

<212> PRT

<213> Homo sapiens

<400> 16

Trp Phe Glu Pro Leu Val Glu Asp
1 5

<210> 17

<211> 8

<212> PRT

<213> Homo sapiens

<400> 17

Ala Phe Gln Ala Arg Leu Lys Ser
1 5

<210> 18
<211> 24
<212> PRT
<213> Homo sapiens

<400> 18

Ala Arg Met Glu Glu Met Gly Ser Arg Thr Arg Asp Arg Leu Asp Glu
1 5 10 15

Val Lys Glu Gln Val Ala Glu Val
20

<210> 19
<211> 32
<212> PRT
<213> Homo sapiens

<400> 19

Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp
1 5 10 15

Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val
20 25 30

<210> 20
<211> 6
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (2)..(3)
<223> X = any amino acid

<400> 20

Ser Xaa Xaa Leu Asp Tyr
1 5

<210> 21
<211> 5
<212> PRT
<213> Homo sapiens

<400> 21

Lys Tyr Ser Met His
1 5

<210> 22
<211> 17
<212> PRT
<213> Homo sapiens

<400> 22

Gly Ile Tyr Ser Ser Gly Gly Lys Thr Ile Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 23
<211> 6
<212> PRT
<213> Homo sapiens

<400> 23

Ser Leu Asp Leu Asp Tyr
1 5

<210> 24
<211> 5
<212> PRT
<213> Homo sapiens

<400> 24

Met Tyr Met Met Asp
1 5

<210> 25
<211> 17
<212> PRT
<213> Homo sapiens

<400> 25

Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 26
<211> 6
<212> PRT

<213> Homo sapiens

<400> 26

Ser Val Leu Leu Asp Tyr
1 5

<210> 27

<211> 5

<212> PRT

<213> Homo sapiens

<400> 27

Tyr Tyr Ala Met Gln
1 5

<210> 28

<211> 17

<212> PRT

<213> Homo sapiens

<400> 28

Ser Leu Tyr Pro Ser Gly Gly Asn Thr Ser Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 29

<211> 19

<212> PRT

<213> Homo sapiens

<400> 29

Gly Arg Gly Asn Tyr Asp Phe Trp Ser Ala Gly Tyr Tyr Tyr Tyr Tyr
1 5 10 15

Met Asp Val

<210> 30

<211> 11

<212> PRT

<213> Homo sapiens

<400> 30

Arg Ala Ser Gln Arg Ile Arg Lys Asn Leu His
1 5 10

<210> 31
<211> 7
<212> PRT
<213> Homo sapiens

<400> 31

Asp Ala Ser Ser Asn Glu Arg
1 5

<210> 32
<211> 9
<212> PRT
<213> Homo sapiens

<400> 32

Gln Gln Ser Phe Ser Ser Pro Trp Thr
1 5

<210> 33
<211> 11
<212> PRT
<213> Homo sapiens

<400> 33

Arg Thr Ser Gln Asp Ile Arg Asn His Leu Gly
1 5 10

<210> 34
<211> 7
<212> PRT
<213> Homo sapiens

<400> 34

Glu Ala Ser Ile Leu Gln Ser
1 5

<210> 35
<211> 9
<212> PRT
<213> Homo sapiens

<400> 35

Leu Gln Tyr Asp Ser Phe Pro Tyr Thr
1 5

<210> 36

<211> 12
 <212> PRT
 <213> Homo sapiens

<400> 36

Arg Ala Ser Gln Ser Ile Gly Ser Arg Tyr Leu Ala
 1 5 10

<210> 37
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 37

Asp Ala Ser Lys Arg Ala Thr
 1 5

<210> 38
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 38

Gln Gln Gly Tyr Asn Trp Pro Pro Trp Thr
 1 5 10

<210> 39
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 39

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Tyr
 20 25 30

Ser Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Tyr Ser Ser Gly Gly Lys Thr Ile Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Ser Leu Asp Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 40
<211> 115
<212> PRT
<213> Homo sapiens

<400> 40

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr
20 25 30

Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Val Leu Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 41
<211> 128
<212> PRT
<213> Homo sapiens

<400> 41

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
20 25 30

Ala Met Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Leu Tyr Pro Ser Gly Gly Asn Thr Ser Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Arg Gly Asn Tyr Asp Phe Trp Ser Ala Gly Tyr Tyr Tyr
 100 105 110
 Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 42
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 42

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Arg Ile Arg Lys
 20 25 30
 Asn Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Leu
 35 40 45
 Ile Tyr Asp Ala Ser Ser Asn Glu Arg Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Arg Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Leu Ala Thr Tyr Tyr Cys Gln Gln Ser Phe Ser Ser Pro
 85 90 95
 Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 43
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 43

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Asp Ile Arg Asn
 20 25 30

His Leu Gly Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu
 35 40 45
 Ile Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Tyr
 50 55 60
 Gly Ser Gly Tyr Gly Arg Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Ser Phe Pro
 85 90 95
 Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 44
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 44

Gln Asp Ile Gln Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro
 1 5 10 15
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Gly Ser
 20 25 30
 Arg Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu
 35 40 45
 Leu Ile Tyr Asp Ala Ser Lys Arg Ala Thr Gly Val Pro Val Arg Phe
 50 55 60
 Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu
 65 70 75 80
 Gly Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Gly Tyr Asn Trp
 85 90 95
 Pro Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 45
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 45

Phe Tyr Gly Met Val
 1 5

<210> 46
<211> 17
<212> PRT
<213> Homo sapiens

<400> 46

Ser Ile Ser Pro Ser Gly Gly Tyr Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 47
<211> 14
<212> PRT
<213> Homo sapiens

<400> 47

Asp Gly Arg Arg Pro His Tyr Gly Ser Gly Arg Trp Ala Tyr
1 5 10

<210> 48
<211> 5
<212> PRT
<213> Homo sapiens

<400> 48

Arg Tyr Leu Met Met
1 5

<210> 49
<211> 17
<212> PRT
<213> Homo sapiens

<400> 49

Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 50
<211> 9
<212> PRT
<213> Homo sapiens

<400> 50

Ser Ile Ala Ala Ala Gly Thr Asp Tyr
1 5

<210> 51
<211> 5
<212> PRT
<213> Homo sapiens

<400> 51

Asn Tyr Phe Met Ile
1 5

<210> 52
<211> 17
<212> PRT
<213> Homo sapiens

<400> 52

Trp Ile Ser Pro Ser Gly Gly Thr Thr Gln Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 53
<211> 4
<212> PRT
<213> Homo sapiens

<400> 53

Glu Ala Gly Tyr
1

<210> 54
<211> 5
<212> PRT
<213> Homo sapiens

<400> 54

Ala Tyr Tyr Met Gly
1 5

<210> 55
<211> 17
<212> PRT
<213> Homo sapiens

<400> 55

Val	Ile	Arg	Pro	Ser	Gly	Gly	Lys	Thr	Lys	Tyr	Ala	Asp	Ser	Val	Lys
1				5					10					15	

Gly

<210> 56
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 56

Gly	Pro	His	Gly	Gln	Gly	Gly	Val	Asp	Ser
1				5					10

<210> 57
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 57

Glu	Tyr	Phe	Met	Thr
1				5

<210> 58
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 58

Ser	Ile	Arg	Pro	Ser	Gly	Gly	Lys	Thr	Arg	Tyr	Ala	Asp	Ser	Val	Lys
1				5					10					15	

Gly

<210> 59
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 59

Val	Ser	Arg	Tyr	Tyr	Asn	Asn	Gly	Ala	Tyr	Arg	Leu	Asp	Ala	Phe	Asp
1					5				10					15	

Ile

<210> 60
<211> 5
<212> PRT
<213> Homo sapiens

<400> 60

Ala Tyr Arg Met Ala
1 5

<210> 61
<211> 17
<212> PRT
<213> Homo sapiens

<400> 61

Tyr Ile Ser Ser Ser Gly Gly Val Thr Ser Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 62
<211> 9
<212> PRT
<213> Homo sapiens

<400> 62

Gly Thr His Leu Pro Gly Val Asp Tyr
1 5

<210> 63
<211> 5
<212> PRT
<213> Homo sapiens

<400> 63

Gly Tyr Ile Met Ala
1 5

<210> 64
<211> 17
<212> PRT
<213> Homo sapiens

<400> 64

Gly Ile Gly Ser Ser Gly Gly Leu Thr Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 65
<211> 4
<212> PRT
<213> Homo sapiens

<400> 65

Glu Ala Gly Tyr
1

<210> 66
<211> 5
<212> PRT
<213> Homo sapiens

<400> 66

Ser Tyr Pro Met Val
1 5

<210> 67
<211> 17
<212> PRT
<213> Homo sapiens

<400> 67

Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 68
<211> 20
<212> PRT
<213> Homo sapiens

<400> 68

Glu Gly Ser Ala Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr Tyr Tyr
1 5 10 15

Tyr Met Asp Val
20

<210> 69
<211> 5

<212> PRT
<213> Homo sapiens

<400> 69

Lys Tyr Gln Met Thr
1 5

<210> 70
<211> 17
<212> PRT
<213> Homo sapiens

<400> 70

Val Ile Ser Ser Ser Gly Gly Asp Thr Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 71
<211> 17
<212> PRT
<213> Homo sapiens

<400> 71

Asp Arg Gly Tyr Cys Ser Gly Asn Thr Cys Tyr Ile Asp Ala Phe Asp
1 5 10 15

Ile

<210> 72
<211> 5
<212> PRT
<213> Homo sapiens

<400> 72

Pro Tyr Trp Met Phe
1 5

<210> 73
<211> 17
<212> PRT
<213> Homo sapiens

<400> 73

Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 74
<211> 10
<212> PRT
<213> Homo sapiens

<400> 74

Val Gly Met Ser Thr Tyr Ala Phe Asp Ile
1 5 10

<210> 75
<211> 5
<212> PRT
<213> Homo sapiens

<400> 75

His Tyr Gly Met Ser
1 5

<210> 76
<211> 17
<212> PRT
<213> Homo sapiens

<400> 76

Ser Ile Arg Ser Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 77
<211> 9
<212> PRT
<213> Homo sapiens

<400> 77

Gly Ser Leu Ser Ser Gly Trp Asp Tyr
1 5

<210> 78
<211> 5
<212> PRT
<213> Homo sapiens

<400> 78

Asn Tyr Arg Met Glu
1 5

<210> 79

<211> 17

<212> PRT

<213> Homo sapiens

<400> 79

Ser Ile Trp Ser Ser Gly Gly Leu Thr Lys Gln Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 80

<211> 4

<212> PRT

<213> Homo sapiens

<400> 80

Gly Leu Tyr Arg
1

<210> 81

<211> 5

<212> PRT

<213> Homo sapiens

<400> 81

Trp Tyr Leu Met His
1 5

<210> 82

<211> 17

<212> PRT

<213> Homo sapiens

<400> 82

Ser Ile Val Pro Ser Gly Gly Thr Thr Val Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 83

<211> 9
<212> PRT
<213> Homo sapiens

<400> 83

Asp Leu Trp Phe Gly Glu Trp Asp Tyr
1 5

<210> 84
<211> 5
<212> PRT
<213> Homo sapiens

<400> 84

Trp Tyr Ser Met Val
1 5

<210> 85
<211> 17
<212> PRT
<213> Homo sapiens

<400> 85

Ser Ile Gly Pro Ser Gly Gly Met Thr Arg Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 86
<211> 13
<212> PRT
<213> Homo sapiens

<400> 86

Asp Gln Gly Ile Thr Met Val Gln Gly Ala Met Gly Tyr
1 5 10

<210> 87
<211> 5
<212> PRT
<213> Homo sapiens

<400> 87

Val Tyr Ser Met Ala
1 5

<210> 88
<211> 17
<212> PRT
<213> Homo sapiens

<400> 88

Gly Ile Trp Pro Ser Gly Gly Pro Thr Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 89
<211> 10
<212> PRT
<213> Homo sapiens

<400> 89

Glu Asp Phe Trp Ser Gly Leu Glu Asp Val
1 5 10

<210> 90
<211> 13
<212> PRT
<213> Homo sapiens

<400> 90

Ser Gly Ser Ser Ser Asn Ile Gly Ser Glu Tyr Val Tyr
1 5 10

<210> 91
<211> 7
<212> PRT
<213> Homo sapiens

<400> 91

Arg Asn Asp Gln Arg Pro Ser
1 5

<210> 92
<211> 11
<212> PRT
<213> Homo sapiens

<400> 92

Ala Ala Trp Asp Asp Ser Leu Pro Gly Trp Cys
1 5 10

<210> 93
<211> 13
<212> PRT
<213> Homo sapiens

<400> 93

Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn
1 5 10

<210> 94
<211> 7
<212> PRT
<213> Homo sapiens

<400> 94

Asn Asn Asn Gln Arg Pro Ser
1 5

<210> 95
<211> 11
<212> PRT
<213> Homo sapiens

<400> 95

Ala Ala Trp His Asp Gly Leu Asn Gly Pro Val
1 5 10

<210> 96
<211> 11
<212> PRT
<213> Homo sapiens

<400> 96

Lys Ala Ser Gln Ser Val Arg Ala Phe Ile Ala
1 5 10

<210> 97
<211> 7
<212> PRT
<213> Homo sapiens

<400> 97

Gly Ala Ser Asn Arg Ala Thr
1 5

<210> 98

<211> 9
<212> PRT
<213> Homo sapiens

<400> 98

Gln Gln Tyr Gly Ser Ser Arg Tyr Thr
1 5

<210> 99
<211> 16
<212> PRT
<213> Homo sapiens

<400> 99

Arg Ser Ser Gln Ser Leu Leu His Ser Ser Gly Tyr Asn Tyr Leu Asp
1 5 10 15

<210> 100
<211> 7
<212> PRT
<213> Homo sapiens

<400> 100

Leu Gly Ser Asn Arg Ala Ser
1 5

<210> 101
<211> 8
<212> PRT
<213> Homo sapiens

<400> 101

Met Gln Ala Leu Gln Thr Pro Thr
1 5

<210> 102
<211> 11
<212> PRT
<213> Homo sapiens

<400> 102

Arg Ala Ser Gln Ser Val Ser Ser Asn Leu Ala
1 5 10

<210> 103
<211> 7
<212> PRT

<213> Homo sapiens

<400> 103

Gly Ala Ser Thr Arg Ala Thr
1 5

<210> 104

<211> 9

<212> PRT

<213> Homo sapiens

<400> 104

Gln Gln Tyr Ala Gly His Pro Ile Thr
1 5

<210> 105

<211> 8

<212> PRT

<213> Homo sapiens

<400> 105

Thr Gly Ala Thr Arg Asp Val Ser
1 5

<210> 106

<211> 8

<212> PRT

<213> Homo sapiens

<400> 106

Tyr Glu Val Ser Ser Arg Pro Ser
1 5

<210> 107

<211> 11

<212> PRT

<213> Homo sapiens

<400> 107

Ser Ser Thr Thr Ser Arg Ala Pro Arg Val Val
1 5 10

<210> 108

<211> 16

<212> PRT

<213> Homo sapiens

<400> 108

Arg Ser Ser Gln Ser Leu Met His Arg Asn Gly His His Phe Phe Asp
1 5 10 15

<210> 109

<211> 7

<212> PRT

<213> Homo sapiens

<400> 109

Trp Ala Ser Asn Arg Ala Pro
1 5

<210> 110

<211> 9

<212> PRT

<213> Homo sapiens

<400> 110

Met Gln Ala Leu Gln Thr Pro Tyr Thr
1 5

<210> 111

<211> 11

<212> PRT

<213> Homo sapiens

<400> 111

Gln Ala Ser Gln Asn Ile Asp Asn Tyr Leu Asn
1 5 10

<210> 112

<211> 7

<212> PRT

<213> Homo sapiens

<400> 112

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 113

<211> 9

<212> PRT

<213> Homo sapiens

<400> 113

Gln Gln Ser Tyr Ser Thr Pro Arg Thr
1 5

<210> 114
<211> 13
<212> PRT
<213> Homo sapiens

<400> 114

Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Tyr Val Tyr
1 5 10

<210> 115
<211> 7
<212> PRT
<213> Homo sapiens

<400> 115

Arg Asn Asn Gln Arg Pro Ser
1 5

<210> 116
<211> 11
<212> PRT
<213> Homo sapiens

<400> 116

Ala Ala Trp Asp Asp Ser Leu Asn Ala Trp Val
1 5 10

<210> 117
<211> 16
<212> PRT
<213> Homo sapiens

<400> 117

Lys Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp
1 5 10 15

<210> 118
<211> 7
<212> PRT
<213> Homo sapiens

<400> 118

Leu Gly Ser Asn Arg Ala Ser
1 5

<210> 119
<211> 8
<212> PRT
<213> Homo sapiens

<400> 119

Met Gln Ala Leu Gln Thr Ile Thr
1 5

<210> 120
<211> 11
<212> PRT
<213> Homo sapiens

<400> 120

Arg Ala Ser Gln Ser Ile Ser Arg Trp Leu Ala
1 5 10

<210> 121
<211> 7
<212> PRT
<213> Homo sapiens

<400> 121

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 122
<211> 9
<212> PRT
<213> Homo sapiens

<400> 122

Gln Gln Ser Tyr Ser Thr Pro Leu Thr
1 5

<210> 123
<211> 11
<212> PRT
<213> Homo sapiens

<400> 123

Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala Ser
1 5 10

<210> 124
<211> 7
<212> PRT
<213> Homo sapiens

<400> 124

Gln Asp Arg Lys Arg Pro Ser
1 5

<210> 125
<211> 9
<212> PRT
<213> Homo sapiens

<400> 125

Gln Ser Trp Asp Ser Ser Ser Val Ile
1 5

<210> 126
<211> 11
<212> PRT
<213> Homo sapiens

<400> 126

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 127
<211> 7
<212> PRT
<213> Homo sapiens

<400> 127

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 128
<211> 9
<212> PRT
<213> Homo sapiens

<400> 128

Gln Gln Ala Asn Ser Phe Pro Leu Thr
1 5

<210> 129
<211> 14

<212> PRT
<213> Homo sapiens

<400> 129

Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
1 5 10

<210> 130
<211> 7
<212> PRT
<213> Homo sapiens

<400> 130

Glu Val Asn Lys Arg Pro Ser
1 5

<210> 131
<211> 10
<212> PRT
<213> Homo sapiens

<400> 131

Ser Ser Tyr Ala Gly Arg Asn Phe Val Val
1 5 10

<210> 132
<211> 11
<212> PRT
<213> Homo sapiens

<400> 132

Gly Gly Asn Asn Ile Gly Thr Lys Ile Val Asn
1 5 10

<210> 133
<211> 7
<212> PRT
<213> Homo sapiens

<400> 133

Asp Asn Ser Asp Arg Pro Ser
1 5

<210> 134
<211> 11
<212> PRT
<213> Homo sapiens

<400> 134

Gln Leu Trp Asp Ser Ser Ser Asp His Pro Ile
1 5 10

<210> 135

<211> 123

<212> PRT

<213> Homo sapiens

<400> 135

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Phe Tyr
20 25 30

Gly Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Ile Ser Pro Ser Gly Gly Tyr Thr Leu Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Asp Gly Arg Arg Pro His Tyr Gly Ser Gly Arg Trp Ala Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 136

<211> 118

<212> PRT

<213> Homo sapiens

<400> 136

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Val Arg Ser Ile Ala Ala Ala Gly Thr Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 137
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 137

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Phe Met Ile Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Trp Ile Ser Pro Ser Gly Gly Thr Thr Gln Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Ala Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110
 Ser

<210> 138
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 138

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ala Tyr
 20 25 30
 Tyr Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Val Ile Arg Pro Ser Gly Gly Lys Thr Lys Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Pro His Gly Gln Gly Gly Val Asp Ser Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 139
 <211> 126
 <212> PRT
 <213> Homo sapiens

<400> 139

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Glu Tyr
 20 25 30
 Phe Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Arg Pro Ser Gly Gly Lys Thr Arg Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Val Ser Arg Tyr Tyr Asn Asn Gly Ala Tyr Arg Leu Asp Ala
 100 105 110
 Phe Asp Ile Trp Gly Pro Gly Thr Val Val Thr Val Ser Ser
 115 120 125

<210> 140
 <211> 118
 <212> PRT

<213> Homo sapiens

<400> 140

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ala Tyr
20 25 30

Arg Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Tyr Ile Ser Ser Ser Gly Gly Val Thr Ser Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Lys Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Thr His Leu Pro Gly Val Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 141

<211> 113

<212> PRT

<213> Homo sapiens

<400> 141

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gly Tyr
20 25 30

Ile Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Gly Ser Ser Gly Gly Leu Thr Ala Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Ala Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
100 105 110

Ser

<210> 142
<211> 129
<212> PRT
<213> Homo sapiens

<400> 142

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1			5					10						15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	
			20					25					30			
Pro	Met	Val	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35				40						45				
Ser	Gly	Ile	Trp	Ser	Ser	Gly	Gly	Leu	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	
65					70				75					80		
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
			85					90						95		
Ala	Arg	Glu	Gly	Ser	Ala	Gly	Val	Val	Lys	Gly	Pro	Ala	Arg	Tyr	Tyr	
		100						105					110			
Tyr	Tyr	Tyr	Met	Asp	Val	Trp	Gly	Lys	Gly	Thr	Thr	Val	Thr	Val	Ser	
		115					120					125				

Ser

<210> 143
<211> 126
<212> PRT
<213> Homo sapiens

<400> 143

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1			5					10						15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Lys	Tyr	
			20					25					30			
Gln	Met	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35				40						45				
Ser	Val	Ile	Ser	Ser	Ser	Gly	Gly	Asp	Thr	Ala	Tyr	Ala	Asp	Ser	Val	
	50					55				60						

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Arg Gly Tyr Cys Ser Gly Asn Thr Cys Tyr Ile Asp Ala
 100 105 110
 Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser
 115 120 125

<210> 144
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 144

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
 20 25 30
 Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Val Gly Met Ser Thr Tyr Ala Phe Asp Ile Trp Gly Gln Gly
 100 105 110
 Thr Met Val Thr Val Ser Ser
 115

<210> 145
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 145

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Leu Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His Tyr
 20 25 30
 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Arg Ser Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Lys Gly Ser Leu Ser Ser Gly Trp Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 146
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 146

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Arg Met Glu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Trp Ser Ser Gly Gly Leu Thr Lys Glu Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Leu Tyr Arg Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110
 Ser

<210> 147
 <211> 118
 <212> PRT

<213> Homo sapiens

<400> 147

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr
20 25 30
Leu Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Ser Ile Val Pro Ser Gly Gly Thr Thr Val Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Asp Leu Trp Phe Gly Glu Trp Asp Tyr Trp Gly Gln Gly Thr
100 105 110
Leu Val Thr Val Ser Ser
115

<210> 148

<211> 122

<212> PRT

<213> Homo sapiens

<400> 148

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr
20 25 30
Ser Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Ser Ile Gly Pro Ser Gly Gly Met Thr Arg Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Asp Gln Gly Ile Thr Met Val Gln Gly Ala Met Gly Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 149
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 149

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Val Tyr
 20 25 30
 Ser Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Trp Pro Ser Gly Gly Pro Thr Ala Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Asp Phe Trp Ser Gly Leu Glu Asp Val Trp Gly Lys Gly
 100 105 110
 Thr Thr Val Thr Val Ser Ser
 115

<210> 150
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 150

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Glu
 20 25 30
 Tyr Val Tyr Trp Phe Gln Gln Leu Pro Gly Thr Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Arg Asn Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Pro Gly Trp Cys Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 151
<211> 110
<212> PRT
<213> Homo sapiens

<400> 151

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Asn Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp His Asp Gly Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 152
<211> 108
<212> PRT
<213> Homo sapiens

<400> 152

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Lys Ala Ser Gln Ser Val Arg Ala
20 25 30

Phe Ile Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Ser Gly Ala Ser Asn Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Gly Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Arg
85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 153
<211> 112
<212> PRT
<213> Homo sapiens

<400> 153

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Ser Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Asp Ile Lys
100 105 110

<210> 154
<211> 108
<212> PRT
<213> Homo sapiens

<400> 154

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser
20 25 30

Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ala Gly His Pro
85 90 95
Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105

<210> 155
<211> 105
<212> PRT
<213> Homo sapiens
<400> 155

Gln Ser Glu Leu Thr Gln Ala Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15
Ser Ile Thr Leu Ser Cys Thr Gly Ala Thr Arg Asp Val Ser Trp Tyr
20 25 30
Gln Gln His Pro Gly Lys Ala Pro Lys Leu Val Leu Tyr Glu Val Ser
35 40 45
Ser Arg Pro Ser Gly Val Ser Asp Arg Phe Ser Gly Ser Met Ser Gly
50 55 60
Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala
65 70 75 80
Asp Tyr Tyr Cys Ser Ser Thr Thr Ser Arg Ala Pro Arg Val Val Phe
85 90 95
Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 156
<211> 113
<212> PRT
<213> Homo sapiens
<400> 156

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15
Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Met His
20 25 30
Arg Asn Gly His His Phe Phe Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Trp Ala Ser Asn Arg Ala Pro Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 157
<211> 108
<212> PRT
<213> Homo sapiens

<400> 157

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Ile
1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Gln Ala Ser Gln Asn Ile Asp Asn
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 158
<211> 110
<212> PRT
<213> Homo sapiens

<400> 158

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Tyr Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80
 Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95
 Asn Ala Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 159
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 159

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15
 Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
 20 25 30
 Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60
 Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95
 Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 160
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 160

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg
 20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 161
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 161

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15
 Thr Ala Ser Ile Thr Cys Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala
 20 25 30
 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
 35 40 45
 Gln Asp Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Leu
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp Asp Ser Ser Ser Val Ile
 85 90 95
 Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105

<210> 162
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 162

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
 20 25 30
 Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Glu Phe Ser Leu Ser Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro
 85 90 95
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 163
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 163

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln
 1 5 10 15
 Ser Val Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
 20 25 30
 Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Phe
 35 40 45
 Met Ile Tyr Glu Val Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe
 50 55 60
 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu
 65 70 75 80
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Ala Gly Arg
 85 90 95
 Asn Phe Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 164
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 164

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
 1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Ile Gly Thr Lys Ile Val
 20 25 30
 Asn Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Val Val Tyr
 35 40 45
 Asp Asn Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gln Leu Trp Asp Ser Ser Ser Asp His
 85 90 95
 Pro Ile Phe Gly Thr Gly Thr Lys Val Thr Val Leu
 100 105

<210> 165
 <211> 317
 <212> PRT
 <213> Homo sapiens

<400> 165

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys
 1 5 10 15
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
 20 25 30
 Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu
 35 40 45
 Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln
 50 55 60
 Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala
 65 70 75 80
 Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu
 85 90 95
 Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser
 100 105 110
 Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp
 115 120 125
 Val Arg Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu
 130 135 140
 Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg
 145 150 155 160

Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg
 165 170 175
 Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu
 180 185 190
 Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val
 195 200 205
 Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg
 210 215 220
 Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly
 225 230 235 240
 Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu
 245 250 255
 Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala
 260 265 270
 Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu
 275 280 285
 Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala
 290 295 300
 Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
 305 310 315

<210> 166
 <211> 317
 <212> PRT
 <213> Homo sapiens

<400> 166

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys
 1 5 10 15
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
 20 25 30
 Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu
 35 40 45
 Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln
 50 55 60
 Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala
 65 70 75 80
 Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu
 85 90 95

Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser
 100 105 110
 Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp
 115 120 125
 Val Cys Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu
 130 135 140
 Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg
 145 150 155 160
 Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg
 165 170 175
 Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu
 180 185 190
 Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val
 195 200 205
 Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg
 210 215 220
 Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly
 225 230 235 240
 Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu
 245 250 255
 Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala
 260 265 270
 Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu
 275 280 285
 Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala
 290 295 300
 Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
 305 310 315

<210> 167
 <211> 317
 <212> PRT
 <213> Homo sapiens

<400> 167

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys
 1 5 10 15
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
 20 25 30

Arg	Gln	Gln	Thr	Glu	Trp	Gln	Ser	Gly	Gln	Arg	Trp	Glu	Leu	Ala	Leu			
	35						40					45						
Gly	Arg	Phe	Trp	Asp	Tyr	Leu	Arg	Trp	Val	Gln	Thr	Leu	Ser	Glu	Gln			
	50					55					60							
Val	Gln	Glu	Glu	Leu	Leu	Ser	Ser	Gln	Val	Thr	Gln	Glu	Leu	Arg	Ala			
65					70					75					80			
Leu	Met	Asp	Glu	Thr	Met	Lys	Glu	Leu	Lys	Ala	Tyr	Lys	Ser	Glu	Leu			
				85					90					95				
Glu	Glu	Gln	Leu	Thr	Pro	Val	Ala	Glu	Glu	Thr	Arg	Ala	Arg	Leu	Ser			
			100					105					110					
Lys	Glu	Leu	Gln	Ala	Ala	Gln	Ala	Arg	Leu	Gly	Ala	Asp	Met	Glu	Asp			
	115						120					125						
Val	Cys	Gly	Arg	Leu	Val	Gln	Tyr	Arg	Gly	Glu	Val	Gln	Ala	Met	Leu			
	130					135						140						
Gly	Gln	Ser	Thr	Glu	Glu	Leu	Arg	Val	Arg	Leu	Ala	Ser	His	Leu	Arg			
145					150					155					160			
Lys	Leu	Arg	Lys	Arg	Leu	Leu	Arg	Asp	Ala	Asp	Asp	Leu	Gln	Lys	Cys			
				165					170					175				
Leu	Ala	Val	Tyr	Gln	Ala	Gly	Ala	Arg	Glu	Gly	Ala	Glu	Arg	Gly	Leu			
			180					185					190					
Ser	Ala	Ile	Arg	Glu	Arg	Leu	Gly	Pro	Leu	Val	Glu	Gln	Gly	Arg	Val			
		195					200					205						
Arg	Ala	Ala	Thr	Val	Gly	Ser	Leu	Ala	Gly	Gln	Pro	Leu	Gln	Glu	Arg			
	210					215					220							
Ala	Gln	Ala	Trp	Gly	Glu	Arg	Leu	Arg	Ala	Arg	Met	Glu	Glu	Met	Gly			
225					230					235					240			
Ser	Arg	Thr	Arg	Asp	Arg	Leu	Asp	Glu	Val	Lys	Glu	Gln	Val	Ala	Glu			
				245					250					255				
Val	Arg	Ala	Lys	Leu	Glu	Glu	Gln	Ala	Gln	Gln	Ile	Arg	Leu	Gln	Ala			
			260					265					270					
Glu	Ala	Phe	Gln	Ala	Arg	Leu	Lys	Ser	Trp	Phe	Glu	Pro	Leu	Val	Glu			
		275					280					285						
Asp	Met	Gln	Arg	Gln	Trp	Ala	Gly	Leu	Val	Glu	Lys	Val	Gln	Ala	Ala			
	290					295					300							
Val	Gly	Thr	Ser	Ala	Ala	Pro	Val	Pro	Ser	Asp	Asn	His						
305					310					315								

<210> 168

<211> 299

<212> PRT
 <213> Homo sapiens

<400> 168

Lys	Val	Glu	Gln	Ala	Val	Glu	Thr	Glu	Pro	Glu	Pro	Glu	Leu	Arg	Gln	1	5	10	15
Gln	Thr	Glu	Trp	Gln	Ser	Gly	Gln	Arg	Trp	Glu	Leu	Ala	Leu	Gly	Arg	20	25	30	
Phe	Trp	Asp	Tyr	Leu	Arg	Trp	Val	Gln	Thr	Leu	Ser	Glu	Gln	Val	Gln	35	40	45	
Glu	Glu	Leu	Leu	Ser	Ser	Gln	Val	Thr	Gln	Glu	Leu	Arg	Ala	Leu	Met	50	55	60	
Asp	Glu	Thr	Met	Lys	Glu	Leu	Lys	Ala	Tyr	Lys	Ser	Glu	Leu	Glu	Glu	65	70	75	80
Gln	Leu	Thr	Pro	Val	Ala	Glu	Glu	Thr	Arg	Ala	Arg	Leu	Ser	Lys	Glu	85	90	95	
Leu	Gln	Ala	Ala	Gln	Ala	Arg	Leu	Gly	Ala	Asp	Met	Glu	Asp	Val	Arg	100	105	110	
Gly	Arg	Leu	Val	Gln	Tyr	Arg	Gly	Glu	Val	Gln	Ala	Met	Leu	Gly	Gln	115	120	125	
Ser	Thr	Glu	Glu	Leu	Arg	Val	Arg	Leu	Ala	Ser	His	Leu	Arg	Lys	Leu	130	135	140	
Arg	Lys	Arg	Leu	Leu	Arg	Asp	Ala	Asp	Asp	Leu	Gln	Lys	Arg	Leu	Ala	145	150	155	160
Val	Tyr	Gln	Ala	Gly	Ala	Arg	Glu	Gly	Ala	Glu	Arg	Gly	Leu	Ser	Ala	165	170	175	
Ile	Arg	Glu	Arg	Leu	Gly	Pro	Leu	Val	Glu	Gln	Gly	Arg	Val	Arg	Ala	180	185	190	
Ala	Thr	Val	Gly	Ser	Leu	Ala	Gly	Gln	Pro	Leu	Gln	Glu	Arg	Ala	Gln	195	200	205	
Ala	Trp	Gly	Glu	Arg	Leu	Arg	Ala	Arg	Met	Glu	Glu	Met	Gly	Ser	Arg	210	215	220	
Thr	Arg	Asp	Arg	Leu	Asp	Glu	Val	Lys	Glu	Gln	Val	Ala	Glu	Val	Arg	225	230	235	240
Ala	Lys	Leu	Glu	Glu	Gln	Ala	Gln	Gln	Ile	Arg	Leu	Gln	Ala	Glu	Ala	245	250	255	
Phe	Gln	Ala	Arg	Leu	Lys	Ser	Trp	Phe	Glu	Pro	Leu	Val	Glu	Asp	Met	260	265	270	

Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val Gly
 275 280 285

Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
 290 295

<210> 169
 <211> 299
 <212> PRT
 <213> Homo sapiens

<400> 169

Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu Arg Gln
 1 5 10 15

Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu Gly Arg
 20 25 30

Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln Val Gln
 35 40 45

Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala Leu Met
 50 55 60

Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu Glu Glu
 65 70 75 80

Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser Lys Glu
 85 90 95

Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp Val Cys
 100 105 110

Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln
 115 120 125

Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg Lys Leu
 130 135 140

Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg Leu Ala
 145 150 155 160

Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala
 165 170 175

Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val Arg Ala
 180 185 190

Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg Ala Gln
 195 200 205

Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly Ser Arg
 210 215 220

Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val Arg
 225 230 235 240
 Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu Ala
 245 250 255
 Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp Met
 260 265 270
 Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val Gly
 275 280 285
 Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
 290 295

<210> 170
 <211> 299
 <212> PRT
 <213> Homo sapiens

<400> 170

Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu Arg Gln
 1 5 10 15
 Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu Gly Arg
 20 25 30
 Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln Val Gln
 35 40 45
 Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala Leu Met
 50 55 60
 Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu Glu Glu
 65 70 75 80
 Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser Lys Glu
 85 90 95
 Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp Val Cys
 100 105 110
 Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln
 115 120 125
 Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg Lys Leu
 130 135 140
 Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Cys Leu Ala
 145 150 155 160
 Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala
 165 170 175

Ile	Arg	Glu	Arg	Leu	Gly	Pro	Leu	Val	Glu	Gln	Gly	Arg	Val	Arg	Ala
			180					185					190		
Ala	Thr	Val	Gly	Ser	Leu	Ala	Gly	Gln	Pro	Leu	Gln	Glu	Arg	Ala	Gln
		195					200					205			
Ala	Trp	Gly	Glu	Arg	Leu	Arg	Ala	Arg	Met	Glu	Glu	Met	Gly	Ser	Arg
	210					215					220				
Thr	Arg	Asp	Arg	Leu	Asp	Glu	Val	Lys	Glu	Gln	Val	Ala	Glu	Val	Arg
225				230						235					240
Ala	Lys	Leu	Glu	Glu	Gln	Ala	Gln	Gln	Ile	Arg	Leu	Gln	Ala	Glu	Ala
			245						250					255	
Phe	Gln	Ala	Arg	Leu	Lys	Ser	Trp	Phe	Glu	Pro	Leu	Val	Glu	Asp	Met
		260						265					270		
Gln	Arg	Gln	Trp	Ala	Gly	Leu	Val	Glu	Lys	Val	Gln	Ala	Ala	Val	Gly
	275					280						285			
Thr	Ser	Ala	Ala	Pro	Val	Pro	Ser	Asp	Asn	His					
	290					295									

<210> 171
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 171
 caagacatcc agatgaccca gtctccaggc accctgtctt tgtctccagg ggaaagagcc 60
 accctctcct gcagggccag tcagagtatt ggcagccgct acttagcctg gtaccagcag 120
 aaacctggcc aggtccccag gctcctcatc tatgatgcat ccaagagggc cactggcgctc 180
 ccagtcaggt tcagcggcag tggatctggg acagacttca ctctcaccat cagcagcctg 240
 gggcctgaag attttgcagt ttattactgc caacagggct acaactggcc tccgtggacg 300
 ttcggccaag ggaccaaggt ggaaatcaaa 330

<210> 172
 <211> 384
 <212> DNA
 <213> Homo sapiens

<400> 172
 gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctggtgggttc tttacgtctt 60
 tcttgcgctg cttccggatt cactttctct tattacgcta tgcagtgggt tcgccaagct 120
 cctggtaaag gtttggagtg ggtttcttct ctctatcctt ctggtggcaa tacttcttat 180
 gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggtcgc	300
gggaattacg atttttggag tgcgggctac tactactact acatggacgt ctggggcaaa	360
gggaccacgg tcaccgtctc aagc	384

<210> 173
 <211> 324
 <212> DNA
 <213> Homo sapiens

<400> 173	
caagacatcc agatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc	60
accatcactt gccgggcaag tcagcgcata agaaagaatt tacattggta tcagcagaaa	120
ccagggaag cccctaacct cctgatctat gatgcatcca gtaacgaacg tgggggccca	180
tcaaggttca gtggcagagg atctgggaca gagttcactc tcaccatcag cagtctacaa	240
cctgaagatc ttgcaactta ctactgtcaa cagagtttca gtagcccctg gacgttcggc	300
caagggacca aggtggaaat caaa	324

<210> 174
 <211> 345
 <212> DNA
 <213> Homo sapiens

<400> 174	
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctgggtgggtc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct aagtactcta tgcattgggt tcgccaaagt	120
cctggtaaag gtttggagtg ggtttctggt atctattctt ctgggtggcaa gactatttat	180
gctgactccg ttaaaggctc cttcactatc tctagagaca accctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagatcgctt	300
gatcttgact actggggcca gggaaccctg gtcaccgtct caagc	345

<210> 175
 <211> 324
 <212> DNA
 <213> Homo sapiens

<400> 175	
caagacatcc agatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc	60
accatcactt gccggacaag tcaggacatt agaaatcatt taggctgggt tcagcagaaa	120
ccagggaag cccctcagcg cctgattcgt gaagcatcca ttttaciaag tgggggccca	180

tcaacatttt acggcagtgg atatgggaga gaattcactc tcacaatcag cagcctgcag	240
cctgaggatt ttgcaacctt ttattgtcta caatatgatt ctttcccata cacctttggc	300
caggggacca agctggagat caaa	324

<210> 176

<211> 345

<212> DNA

<213> Homo sapiens

<400> 176

gaagttcaat tgtagagtc tggtagcggt cttgttcagc ctggtgggtc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct atgtacatga tggattgggt tcgccaagct	120
cctggtaaag gtttggagtg ggtttcttct atctggcctt ctggtggcca gacttggtat	180
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagatccgtc	300
ctccttgact actggggcca gggaaccctg gtcaccgtct caagc	345

<210> 177

<211> 330

<212> DNA

<213> Homo sapiens

<400> 177

cagtacgaat tgactcagcc accctcagtg tctgggaccc ccgggcagag ggccaccatc	60
tcttggtctg gaagcagttc caacatcgga agtgagtatg tgtactgggt ccagcagctc	120
ccaggaacgg cccccagact cctcatctat aggaatgatc agcgccctc aggggtccct	180
gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tggcctccag	240
tctgaggatg aggctgatta ttactgtgca gcatgggatg acagcctgcc tggttgggtg	300
tccggcgcg ggaccaagct gaccgtccta	330

<210> 178

<211> 369

<212> DNA

<213> Homo sapiens

<400> 178

gaagttcaat tgtagagtc tggtagcggt cttgttcagc ctggtgggtc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct ttttacggta tggtttgggt tcgccaagct	120
cctggtaaag gtttggagtg ggtttcttct atctctcctt ctggtggcta tactctttat	180

gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gaaagatggg	300
agacggcccc actatgggtc ggggaggtgg gcctactggg gccagggaac cctggtcacc	360
gtctcaagc	369

<210> 179
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 179	
cagagcgaat tgactcagcc accctcagcg tctgggaccc ccgggcagag ggtcaccatc	60
tcttgttctg gaagcagctc caacatcgga agtaatactg taaactggta ccagcagctc	120
ccaggaacgg cccccaaact cctcatctat aataataatc agcggccctc aggggtccct	180
gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tgggctccag	240
tctgaggatg aggctgatta ttactgtgca gcatggcatg acggcctgaa tgggtccggtg	300
ttcggcggag ggaccaagct gaccgtccta	330

<210> 180
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 180	
gaagttcaat tgtagagtc tgggtggcgt cttgttcagc ctggtgggtc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct cgttacctta tgatgtgggt tcgccaagct	120
cctggtaaag gtttggagtg ggtttctgtt atctctcctt ctggtggccg tacttggtat	180
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgt gaggagtata	300
gcagcagctg gaactgacta ctggggccag ggaaccctgg tcaccgtctc aagc	354

<210> 181
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 181	
gacatccaga tgaccagtc tccagccacc ctgtctttgt ctccagggga aagagccacc	60
ctctcttgta aggccagtca gagtgttcgc gccttcatag cctggtacca gcagaaacct	120

ggccaggctc ccaggctcct catctctggt gcatccaaca gggccactgg catcccagac	180
aggttcagtg gcggtgggtc tgggacagac ttcactctca ccatcagcag actggagcct	240
gaagattttg cagtgtatta ctgtcagcag tacggtagtt cacggtacac ttttggccag	300
gggaccaagc tggagatcaa a	321

<210> 182
 <211> 339
 <212> DNA
 <213> Homo sapiens

<400> 182	
gaagttcaat tgtagagtc tggtagcggt cttgttcagc ctggtgggtc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct aattacttta tgatttgggt tcgccaagct	120
cctggtaaag gtttggagtg ggtttcttgg atctctcctt ctggtggcac tactcagtat	180
gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagcc	300
ggctactggg gccagggaac cctggtcacc gtctcaagc	339

<210> 183
 <211> 333
 <212> DNA
 <213> Homo sapiens

<400> 183	
gacatccaga tgaccagtc tccatcctcc ctgcccgtca cccctggaga gccggcctcc	60
atctcctgca ggtctagtca gagcctccta catagtagtg gatacaacta tttggattgg	120
tacctgcaga agccaggaca gtctccacaa ctctgattt atttgggttc taatcggggc	180
tccgggggtcc ctgacagggt cactggcagt ggatcaggca cagattttac actgaaaatc	240
agcagagtgg aggctgagga tgttgggggt tattactgca tgcaagctct acaaaccccc	300
actttcggcg gagggaccaa ggtggacatc aaa	333

<210> 184
 <211> 357
 <212> DNA
 <213> Homo sapiens

<400> 184	
gaagttcaat tgtagagtc tggtagcggt cttgttcagc ctggtgggtc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct gcttactata tgggttgggt tcgccaagct	120

cctggtaaag gtttggagtg ggtttctgtt atccgtcctt ctgggtggcaa gactaagtat	180
gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggcccg	300
catggtcagg ggggtgttga ctcggtggggc cagggaaacc tggtcacctg ctcaagc	357

<210> 185
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 185	
gacatccaga tgacccagtc tccagccacc ctgtctgtgt ctccagggga aagagccacc	60
ctctcctgta gggccagtc gagtgtagc agcaacttag cctggtagca gcagaaacct	120
ggccaggctc ccaggctcct catctatggt gcatccacca gggccactgg cgtcccagcc	180
aggttcagtg gcagtgggtc tgggacagac ttcactctct ccatcagcag cctgcagcct	240
gaagactttg caacttatta ctgtcaacag tatgctggtc accccatcac cttcggccaa	300
gggacccgac tggagattaa a	321

<210> 186
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 186	
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctgggtgggtc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct gagtacttta tgacttgggt tcgccaagct	120
cctggtaaag gtttggagtg ggtttcttct atccgtcctt ctgggtggcaa gactcgttat	180
gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagttagt	300
cgctactata ataatggtgc ttatcgcctt gatgcatttg atatctgggg cccagggaca	360
gtggtcaccg tctcaagc	378

<210> 187
 <211> 315
 <212> DNA
 <213> Homo sapiens

<400> 187	
cagagcgaat tgactcaggc tgcctccgtg tctgggtctc ctggacagtc gatcaccttc	60

tcttgcaactg gagccaccag ggacgtctcc tggtagaccagc aacacccagg caaggccccc	120
aaactcgtcc tttatgaagt cagtagtcgc ccctcaggcg tttccgatcg cttctctggc	180
tccatgtctg gcaacacggc ctccctgacc atctctggac tccaggctga ggacgaggct	240
gattattact gtcctcaac cacaagtcgc gccctcgcg tggttttcgg cggagggacc	300
aaactgaccg tccta	315

<210> 188
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 188	
gaagttcaat tgtagagtc tggtagcggt cttgttcagc ctggtgggtc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct gcttaccgta tggcttgggt tcgccaagct	120
cctggtaaag gtttggagtg ggtttcttat atctcttctt ctggtggcgt tacttcttat	180
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga agagcttaag ggctgaggac actgcagtct actattgtgc gagaggcacg	300
cacctcccg gggttgacta ctggggccag ggaaccctgg tcaccgtctc aagc	354

<210> 189
 <211> 336
 <212> DNA
 <213> Homo sapiens

<400> 189	
gacatccaga tgaccagtc tccactctcc ctgcccgtca cccctggaga gccggcctcc	60
atctcctgca gatctagtca gagcctcatg cataggaatg gacaccactt cttcgattgg	120
tacctgcaga agccagggca gtctccacag ctctgatct attgggcttc taatcggggc	180
cccgggggtcc ctgacagggt cagtggcagt ggatcaggca cagactttac actaaaaatc	240
agcagagtgg aggctgagga tgttgggatt tattactgca tgcaagctct acaaaccctg	300
tacacttttg gccaggggac caagctggag atcaaa	336

<210> 190
 <211> 339
 <212> DNA
 <213> Homo sapiens

<400> 190	
gaagttcaat tgtagagtc tggtagcggt cttgttcagc ctggtgggtc tttacgtctt	60

tcttgcgctg cttccggatt cactttctct ggttacatta tggcttgggt tcgccaagct	120
cctggtaaag gtttggagtg ggtttcttgt atcggttctt ctggtggcct tactgcttat	180
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagcc	300
ggctactggg gccaggggaac cctgggcacc gtctcaagc	339

<210> 191
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 191	
gacatccaga tgaccagtc tccatcctcc ctgtctgcat ctataggaga cagagtcacc	60
atctcttgcc aggcgagtc aaacattgac aactatttaa attggtatca gcagaaacca	120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca	180
aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct	240
gaagattttg caacttacta ctgtcaacag agttacagta cccctcgaac gttcggccaa	300
gggaccaagg tggaaatcaa a	321

<210> 192
 <211> 387
 <212> DNA
 <213> Homo sapiens

<400> 192	
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctggtgggtc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct tcttacccta tggtttgggt tcgccaagct	120
cctggtaaag gtttggagtg ggtttcttgt atctggtctt ctggtggcct tacttattat	180
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagagggc	300
tcggccggag tgggttaaagg gccggcccg tactactact actacatgga cgtctggggc	360
aaagggacca cggtcaccgt ctcaagc	387

<210> 193
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 193
cagagcgaat tgactcagcc accctcagcg tctgggaccc ccgggcagag ggtcaccatc 60
tcttggtctg gaagcagctc caacatcgga agtaattatg tatactggta ccagcagctc 120
ccaggaacgg cccccaaact cctcatctat aggaataatc agcggccctc aggggtccct 180
gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tgggctccag 240
tctgaggatg aggctgatta ttactgtgca gcatgggatg acagcctgaa tgcctgggtg 300
ttcggcggag ggaccaagct gaccgtccta 330

<210> 194
<211> 378
<212> DNA
<213> Homo sapiens

<400> 194
gaagttcaat tgttagagtc tgggtggcggc cttgttcagc ctggtgggtc tttacgtctt 60
tcttgcgctg cttccggatt cactttctct aagtaccaga tgacttgggt tcgccaagct 120
cctggtaaag gtttgagtg ggtttctgtt atctcttctt ctggtggcga tactgcttat 180
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagatcgg 300
ggttattgta gtggtaatac ttgctatatt gatgcttttg atatctgggg ccaagggaca 360
atggtcaccg tctcaagc 378

<210> 195
<211> 333
<212> DNA
<213> Homo sapiens

<400> 195
gacatccaga tgacccagtc tccactctcc ctgcccgtca cccttgagga gccggcctcc 60
atctcctgca agtctagtca gagcctcctg catagtaatg gatacaacta tttagattgg 120
tacctgcaga aaccagggca gtctccacag ctctgatct ctttgggttc taatcgggcc 180
tcgggggtcc ctgccagggt cagtggcagt ggctcaggca cagattttac actgaaaatc 240
agcagagtgg aggctgagga tgttggagtt tactactgca tgcaagctct acaaactatc 300
accttcggcc aagggacacg actggagatt aaa 333

<210> 196
<211> 357
<212> DNA

<213> Homo sapiens

<400> 196

gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctggtgggtc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct cttactgga tgttttgggt tcgccaagct	120
cctggtaaag gtttggagtg ggtttcttgt atcgtttctt ctggtggcat gactggttat	180
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagtgggg	300
atgtccacct atgcttttga tatctggggc caagggacaa tggtcaccgt ctcaagc	357

<210> 197

<211> 321

<212> DNA

<213> Homo sapiens

<400> 197

gacatccaga tgaccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgcc gggccagtca gagtattagt aggtggttgg cctggatatca gcagaaacca	120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca	180
aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct	240
gaagattttg caacttacta ctgtcaacag agttacagta ccccgctcac tttcggcgga	300
gggaccaagg tggagatcaa a	321

<210> 198

<211> 354

<212> DNA

<213> Homo sapiens

<400> 198

gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ttggtgggtc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct cattacggta tgtcttgggt tcgccaagct	120
cctggtaaag gtttggagtg ggtttcttct atccgttctt ctggtggccg tacttggtat	180
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagttt actattgtgc gaaaggctcc	300
cttagcagtg gctgggacta ctggggccag ggaaccctgg tcaccgtctc aagc	354

<210> 199

<211> 318

<212> DNA

<213> Homo sapiens

<400> 199

cagagcgctt tgactcagcc accctcagtg tccgtgtccc ctggacagac agccagcatc	60
acctgcgctg gagatgaatt gggtaataaa tatgcttcct ggtatcagca gaagccaggc	120
cagtccccctg tgctgggtcat ctatcaagat aggaagcggc cctcagggat ccctgagcga	180
ttctctgggt cccactcttg gaacacagcc actctgacca tcagcgggac ccaggctctc	240
gatgaggctg actattactg tcagtcgtgg gacagcagct ctgtgatatt cggcggcggg	300
accaaggtga ccgtccta	318

<210> 200

<211> 339

<212> DNA

<213> Homo sapiens

<400> 200

gaagttcaat tgttagagtc tggtagcggt cttgttcagc ctggtgggtc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct aattaccgta tggagtgggt tcgccaaagct	120
cctggtaaag gtttggagtg ggtttcttct atctgggtct ctggtggcct tactaaggag	180
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggcctg	300
taccgggtggg gccagggaac cctggtcacc gtctcaagc	339

<210> 201

<211> 330

<212> DNA

<213> Homo sapiens

<400> 201

cagtacgaat tgactcagcc tccctccgcg tccgggtctc ctggacagtc agtcaccatc	60
tcctgcactg gaaccagcag tgacgttggg gggtataact atgtctcctg gtaccaacag	120
catccaggca aagcccccaa attcatgatt tatgaggtca ataagcggcc ctcaggggtc	180
cctgatcgct tctctggctc caagtctggc aacacggcct ccctgaccgt ctctgggctc	240
caggctgagg atgaggctga ttattactgc agctcatatg caggcaggaa ctttgtggta	300
ttcggcggag ggaccaagct gaccgtccta	330

<210> 202

<211> 366

<212> DNA

<213> Homo sapiens

<400> 202

gaagttcaat tgtagagtc tggtagcgt cttgttcagc ctggtggttc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct tggtagtcta tggtttgggt tcgccaagct	120
cctggtaaag gtttggagtg ggtttcttct atcggtcctt ctggtggcat gactcggtat	180
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagatcaa	300
gggattacta tggttcaggg agctatgggc tactggggcc aggggaaccct ggtcaccgtc	360
tcaagc	366

<210> 203

<211> 324

<212> DNA

<213> Homo sapiens

<400> 203

cagagcgctt tgactcagcc accctcggtg tcagtggccc caggacagac ggccaggatt	60
acctgtgggg gaaacaacat tggtagtaa attgtaaact ggtaccagca gaggcaggc	120
cagggccctg tggtagtctg ctatgataat agcgaccggc cctcagggat ccctgagcga	180
ttctctgggt ccaactctgg gaacacggcc accctgacca tcagcagggt cgaagccggg	240
gatgaggccg actattactg tcagctgtgg gatagtagta gtgaccatcc gatcttcgga	300
actgggacca aggtcaccgt ccta	324

<210> 204

<211> 357

<212> DNA

<213> Homo sapiens

<400> 204

gaagttcaat tgtagagtc tggtagcgt cttgttcagc ctggtggttc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct gtttagtcta tggcttgggt tcgccaagct	120
cctggtaaag gtttggagtg ggtttctggt atctggcctt ctggtggccc tactgcttat	180
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagat	300
ttttggagtg gtttggagga cgtctggggc aaagggacca cggtcaccgt ctcaagc	357

<210> 205

<211> 321
 <212> DNA
 <213> Homo sapiens

<400> 205
 gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc 60
 atcacttgcc gggcaagtca gagcattagc agctatttaa attggtatca gcagaaacca 120
 gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 aggttcagtg gcagtggatc tgggacagaa ttctctctct ccatcagcag cctgcagcct 240
 gaagattttg caacttacta ttgtcaacag gctaacagtt tccctctcac tttcggcgga 300
 gggaccaagg tggagatcaa a 321

<210> 206
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 206
 gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctggtggttc tttacgtctt 60
 tcttgcgctg cttccggatt cactttctct tgggtacctta tgcattgggt tcgccaagct 120
 cctggtaaag gtttgagtg ggtttcttct atcgttcctt ctggtggcac tactgtttat 180
 gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac 240
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaccta 300
 tggttcgggg agtgggacta ctggggccag ggaaccctgg tcaccgtctc aagc 354

<210> 207
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 207

Gly Val Leu Asp His Tyr
 1 5

<210> 208
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 208

Gly Ile Leu His Asp Tyr
 1 5

<210> 209
<211> 6
<212> PRT
<213> Homo sapiens

<400> 209

Gly Val Leu Leu Asp Lys
1 5

<210> 210
<211> 6
<212> PRT
<213> Homo sapiens

<400> 210

Gly Val Leu Phe Asp Asn
1 5

<210> 211
<211> 11
<212> PRT
<213> Homo sapiens

<400> 211

Arg Ala Ser Gln Asn Ile His Thr Trp Leu Ala
1 5 10

<210> 212
<211> 16
<212> PRT
<213> Homo sapiens

<400> 212

Arg Ser Ser Gln Ser Leu Ala Ser Ser Asp Gly Asn Met Tyr Leu Asn
1 5 10 15

<210> 213
<211> 11
<212> PRT
<213> Homo sapiens

<400> 213

Arg Thr Ser Gln Gly Ile Arg Asn His Leu Gly
1 5 10

<210> 214
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 214

Arg Ala Ser Gln Thr Ile Ser Arg Tyr Leu Asn
 1 5 10

<210> 215
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 215

Arg Ser Ser Arg Asn Leu Leu His Arg Asn Gly Asn Asn Tyr Leu Asp
 1 5 10 15

<210> 216
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 216

Arg Ala Ser His Gly Ile Asn Gly Tyr Leu Ala
 1 5 10

<210> 217
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 217

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr
100 105 110

Tyr Tyr Tyr Ile Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser
115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
130 135 140

<210> 218
<211> 11
<212> PRT
<213> Homo sapiens

<400> 218

Arg Thr Ser Gln Asp Ile Gly Asn His Leu Ala
1 5 10

<210> 219
<211> 11
<212> PRT
<213> Homo sapiens

<400> 219

Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn
1 5 10

<210> 220
<211> 11
<212> PRT
<213> Homo sapiens

<400> 220

Arg Ala Ser Gln Asp Ile Tyr Arg Trp Leu Val
1 5 10

<210> 221
<211> 11
<212> PRT
<213> Homo sapiens

<400> 221

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 222

<211> 11

<212> PRT

<213> Homo sapiens

<400> 222

Arg Ala Ser Gln Asp Ile Arg Ser Tyr Leu Ala
1 5 10

<210> 223

<211> 11

<212> PRT

<213> Homo sapiens

<400> 223

Arg Ala Ser Gln Asp Ile Ser Ile His Leu Ala
1 5 10

<210> 224

<211> 11

<212> PRT

<213> Homo sapiens

<400> 224

Arg Ala Ser Lys Ser Val Ala Ser Tyr Val Ala
1 5 10

<210> 225

<211> 16

<212> PRT

<213> Homo sapiens

<400> 225

Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Asn Thr Tyr Leu Asp
1 5 10 15

<210> 226

<211> 11

<212> PRT

<213> Homo sapiens

<400> 226

Arg Ala Ser Arg Gly Ile Arg Asn Asn Leu Ala
 1 5 10

<210> 227
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 227

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
 20 25 30

Ser Thr Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 228
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 228

Arg Ala Ser Gln Gly Ile Thr Asn Tyr Leu Ala
 1 5 10

<210> 229
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 229

Arg Ala Ser Gln Val Ile Gly Asn Tyr Leu Ala
 1 5 10

<210> 230

<211> 11
<212> PRT
<213> Homo sapiens

<400> 230

Arg Ala Ser Gln Ser Val Lys Met Asn Leu Ala
1 5 10

<210> 231
<211> 11
<212> PRT
<213> Homo sapiens

<400> 231

Arg Ala Ser Gln Thr Ile Asn Asn Trp Leu Ala
1 5 10

<210> 232
<211> 11
<212> PRT
<213> Homo sapiens

<400> 232

Arg Ala Ser Gln Asp Ile Glu Asn Tyr Leu Ala
1 5 10

<210> 233
<211> 11
<212> PRT
<213> Homo sapiens

<400> 233

Arg Ala Ser Gln Asp Ile His Thr Trp Leu Ala
1 5 10

<210> 234
<211> 11
<212> PRT
<213> Homo sapiens

<400> 234

Arg Ala Ser Gln Gly Ile Ser Ser Trp Leu Ala
1 5 10

<210> 235
<211> 11
<212> PRT

<213> Homo sapiens

<400> 235

Arg Ala Ser Gln Ser Ile Ser Arg Tyr Leu Ala
1 5 10

<210> 236

<211> 11

<212> PRT

<213> Homo sapiens

<400> 236

Arg Ala Ser Gln Asp Ile Arg Asn Ala Leu Gly
1 5 10

<210> 237

<211> 112

<212> PRT

<213> Homo sapiens

<400> 237

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Gly Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Met Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 238

<211> 11

<212> PRT

<213> Homo sapiens

<400> 238

Arg Ala Ser Gln Asp Ile Arg Asn Asp Leu Gly
1 5 10

<210> 239
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 239

Arg Ala Ser Gln Ser Val Asp Ser Trp Leu Ala
 1 5 10

<210> 240
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 240

Gly Ala Ser Ser Leu Gln Ser
 1 5

<210> 241
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 241

Lys Val Ser Asp Arg Asp Ser
 1 5

<210> 242
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 242

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser His Arg Ala Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 243
<211> 7
<212> PRT
<213> Homo sapiens

<400> 243

Ala Thr Ser Thr Leu His Ser
1 5

<210> 244
<211> 7
<212> PRT
<213> Homo sapiens

<400> 244

Met Gly Ser Asn Arg Ala Ser
1 5

<210> 245
<211> 7
<212> PRT
<213> Homo sapiens

<400> 245

Ala Ala Ser Lys Leu Gln Ser
1 5

<210> 246
<211> 112
<212> PRT
<213> Homo sapiens

<400> 246

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Thr Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 247
<211> 7
<212> PRT
<213> Homo sapiens

<400> 247

Gly Ala Ser Thr Val Gln Ser
1 5

<210> 248
<211> 7
<212> PRT
<213> Homo sapiens

<400> 248

Ala Ala Ser Ser Leu Gln Asn
1 5

<210> 249
<211> 7
<212> PRT
<213> Homo sapiens

<400> 249

Ala Ala Phe Asn Leu Gln Ser
1 5

<210> 250
<211> 7
<212> PRT
<213> Homo sapiens

<400> 250

Ala Ala Ser Thr Leu Gln Thr
1 5

<210> 251
<211> 7
<212> PRT
<213> Homo sapiens

<400> 251

Asp Ala Ser Asn Arg Ala Thr
1 5

<210> 252
<211> 7
<212> PRT
<213> Homo sapiens

<400> 252

His Ala Ser Thr Leu Gln Ser
1 5

<210> 253
<211> 7
<212> PRT
<213> Homo sapiens

<400> 253

Gly Ala Tyr Lys Leu Gln Tyr
1 5

<210> 254
<211> 7
<212> PRT
<213> Homo sapiens

<400> 254

Gly Ala Ser His Leu Gln Ser
1 5

<210> 255
<211> 7
<212> PRT
<213> Homo sapiens

<400> 255

Gly Ala Ser Ser Arg Ala Thr
1 5

<210> 256
<211> 7

<212> PRT
<213> Homo sapiens

<400> 256

Lys Thr Ser Asn Leu Gln Ser
1 5

<210> 257
<211> 7
<212> PRT
<213> Homo sapiens

<400> 257

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 258
<211> 7
<212> PRT
<213> Homo sapiens

<400> 258

Val Ala Ser Ser Leu Gln Asp
1 5

<210> 259
<211> 7
<212> PRT
<213> Homo sapiens

<400> 259

Ala Ala Ser Asn Leu Gln Ser
1 5

<210> 260
<211> 7
<212> PRT
<213> Homo sapiens

<400> 260

Thr Ala Ser Arg Leu Gln Ser
1 5

<210> 261
<211> 7
<212> PRT
<213> Homo sapiens

<400> 261

Lys Ala Ser Ser Leu Gln Ser
1 5

<210> 262

<211> 9

<212> PRT

<213> Homo sapiens

<400> 262

Gln Gln Ala Asn Ser Phe Pro Phe Ala
1 5

<210> 263

<211> 9

<212> PRT

<213> Homo sapiens

<400> 263

Met Gln Gly Thr His Trp Pro Pro Thr
1 5

<210> 264

<211> 112

<212> PRT

<213> Homo sapiens

<400> 264

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser His Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 265
<211> 9
<212> PRT
<213> Homo sapiens

<400> 265

Leu Gln Tyr Asn Asn Tyr Pro Phe Thr
1 5

<210> 266
<211> 8
<212> PRT
<213> Homo sapiens

<400> 266

Met Gln Ala Leu Gln Ala Trp Thr
1 5

<210> 267
<211> 9
<212> PRT
<213> Homo sapiens

<400> 267

Gln Gln Tyr Asp Ser Tyr Pro Phe Thr
1 5

<210> 268
<211> 9
<212> PRT
<213> Homo sapiens

<400> 268

Gln Gln Tyr Asp Ala Phe Pro Phe Thr
1 5

<210> 269
<211> 9
<212> PRT
<213> Homo sapiens

<400> 269

Gln Gln Tyr Lys Thr Tyr Pro Phe Thr
1 5

<210> 270

<211> 9
<212> PRT
<213> Homo sapiens

<400> 270

Gln Gln Ala Asn Ser Phe Pro Trp Thr
1 5

<210> 271
<211> 9
<212> PRT
<213> Homo sapiens

<400> 271

Leu Gln Phe Asn Thr Tyr Pro Phe Thr
1 5

<210> 272
<211> 9
<212> PRT
<213> Homo sapiens

<400> 272

Leu Gln His Asp Ser Tyr Pro Phe Thr
1 5

<210> 273
<211> 9
<212> PRT
<213> Homo sapiens

<400> 273

Gln Gln Tyr Glu Ser Tyr Pro Phe Thr
1 5

<210> 274
<211> 8
<212> PRT
<213> Homo sapiens

<400> 274

Gln Gln Tyr Tyr Asn Pro Tyr Thr
1 5

<210> 275
<211> 9
<212> PRT

<213> Homo sapiens

<400> 275

Leu Gln Pro Glu Thr Tyr Pro Trp Thr
1 5

<210> 276

<211> 9

<212> PRT

<213> Homo sapiens

<400> 276

Leu Gln Tyr Gln Thr Tyr Pro Phe Thr
1 5

<210> 277

<211> 9

<212> PRT

<213> Homo sapiens

<400> 277

Gln Gln Ser Ser Ser Ile Pro Tyr Thr
1 5

<210> 278

<211> 9

<212> PRT

<213> Homo sapiens

<400> 278

Gln Gln Tyr Ala Asn Trp Pro Phe His
1 5

<210> 279

<211> 9

<212> PRT

<213> Homo sapiens

<400> 279

Gln Gln Tyr Lys Ala Phe Pro Trp Thr
1 5

<210> 280

<211> 9

<212> PRT

<213> Homo sapiens

<400> 280

Gln Gln Tyr Ser Ser Tyr Pro Phe Thr
1 5

<210> 281

<211> 9

<212> PRT

<213> Homo sapiens

<400> 281

Leu Gln His Asn Thr Tyr Pro Leu Thr
1 5

<210> 282

<211> 9

<212> PRT

<213> Homo sapiens

<400> 282

Leu Gln His Asn Ser Tyr Pro Leu Thr
1 5

<210> 283

<211> 9

<212> PRT

<213> Homo sapiens

<400> 283

Gln Gln Tyr Ala Thr Leu Pro Arg Thr
1 5

<210> 284

<211> 9

<212> PRT

<213> Homo sapiens

<400> 284

Leu Gln Tyr Asn Ser Tyr Pro Phe Thr
1 5

<210> 285

<211> 9

<212> PRT

<213> Homo sapiens

<400> 285

Leu Gln Gln Lys Asn Tyr Pro Leu Thr
1 5

<210> 286
<211> 9
<212> PRT
<213> Homo sapiens

<400> 286

Gln Gln Tyr Lys Ser Phe Pro Phe Thr
1 5

<210> 287
<211> 108
<212> PRT
<213> Homo sapiens

<400> 287

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asn Ile His Thr
20 25 30

Trp Leu Ala Trp Phe Gln Gln Lys Pro Gly Glu Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Gly Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro
85 90 95

Phe Ala Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105

<210> 288
<211> 113
<212> PRT
<213> Homo sapiens

<400> 288

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Ala Ser
20 25 30

Ser Asp Gly Asn Met Tyr Leu Asn Trp Phe His Gln Arg Pro Gly Gln
 35 40 45

Ser Pro Arg Arg Leu Ile Tyr Lys Val Ser Asp Arg Asp Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95

Gly Thr His Trp Pro Pro Thr Phe Gly Pro Gly Thr Lys Val Asp Ile
 100 105 110

Lys

<210> 289
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 289

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Gly Ile Arg Asn
 20 25 30

His Leu Gly Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu
 35 40 45

Ile Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Ser Phe Pro
 85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 290
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 290

Gln Asp Ile Gln Met Thr Gln Ser Pro Pro Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Thr Ile Ser Arg
 20 25 30
 Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ala Thr Ser Thr Leu His Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Gly Leu Gln
 65 70 75 80
 Pro Glu Asp Ser Ala Thr Tyr Tyr Cys Leu Gln Tyr Asn Asn Tyr Pro
 85 90 95
 Phe Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 291
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 291

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15
 Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Arg Asn Leu Leu His
 20 25 30
 Arg Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Gln Leu Leu Ile Tyr Met Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95
 Ala Leu Gln Ala Trp Thr Phe Gly Pro Gly Thr Arg Leu Asp Ile Lys
 100 105 110

<210> 292
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 292

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Ala	Ser	Val
1				5					10					15	
Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	His	Gly	Ile	Asn	Gly
			20					25					30		
Tyr	Leu	Ala	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Arg	Ala	Pro	Lys	Ser	Leu
		35					40					45			
Ile	Tyr	Ala	Ala	Ser	Lys	Leu	Gln	Ser	Gly	Val	Pro	Ser	Lys	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Asn	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Tyr	Asp	Ser	Tyr	Pro
				85					90					95	
Phe	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys				
			100					105							

<210> 293
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 293

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro
1				5					10					15	
Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	His
			20					25					30		
Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln
		35					40					45			
Ser	Pro	Gln	Leu	Leu	Ile	Tyr	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val
	50					55					60				
Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys
65					70					75					80
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln
				85					90					95	
Ala	Leu	Gln	Thr	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 294
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 294

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Asp Ile Gly Asn
 20 25 30
 His Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu
 35 40 45
 Ile Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Ser Tyr Tyr Cys Gln Gln Tyr Asp Ala Phe Pro
 85 90 95
 Phe Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 295
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 295

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Ser Asn
 20 25 30
 Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu
 35 40 45
 Ile Tyr Gly Ala Ser Thr Val Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Lys Thr Tyr Pro
 85 90 95
 Phe Thr Phe Gly Gln Gly Thr Arg Leu Asp Ile Lys
 100 105

<210> 296
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 296

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Tyr Arg
20 25 30

Trp Leu Val Trp Tyr Gln Gln Lys Pro Gly Lys Thr Pro Glu Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Asn Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 297

<211> 108

<212> PRT

<213> Homo sapiens

<400> 297

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Phe Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Gly Arg Ser Glu Ala Asp Phe Thr Leu Ala Ile Thr Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Phe Asn Thr Tyr Pro
85 90 95

Phe Thr Phe Gly Gly Gly Thr Lys Val Glu Leu Lys
100 105

<210> 298

<211> 108

<212> PRT

<213> Homo sapiens

<400> 298

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Thr
1 5 10 15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Arg Ser
20 25 30
Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asp Leu Leu
35 40 45
Ile Tyr Ala Ala Ser Thr Leu Gln Thr Gly Val Pro Ser Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asp Ser Tyr Pro
85 90 95
Phe Thr Phe Gly Pro Gly Ser Lys Val Asp Ile Lys
100 105

<210> 299

<211> 108

<212> PRT

<213> Homo sapiens

<400> 299

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Ile
20 25 30
His Leu Ala Trp Phe Gln Lys Lys Pro Gly Lys Ala Pro Lys Ser Leu
35 40 45
Ile Tyr Gly Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Lys Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Glu Ser Tyr Pro
85 90 95
Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 300

<211> 107

<212> PRT

<213> Homo sapiens

<400> 300

Gln Asn Ile Gln Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro
1 5 10 15
Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Lys Ser Val Ala Ser
20 25 30
Tyr Val Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Arg Leu Leu
35 40 45
Met Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Ala Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu
65 70 75 80
Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asn Pro Tyr
85 90 95
Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 301

<211> 112

<212> PRT

<213> Homo sapiens

<400> 301

Gln Asp Ile Gln Met Thr Gln Ser Pro Asp Ser Leu Pro Val Thr Pro
1 5 10 15
Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30
Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45
Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80
Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95
Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 302

<211> 108

<212> PRT
 <213> Homo sapiens

<400> 302

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val
1				5					10					15	
Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Arg	Gly	Ile	Arg	Asn
			20					25					30		
Asn	Leu	Ala	Trp	Tyr	Gln	His	His	Pro	Gly	Lys	Ala	Pro	Lys	Arg	Leu
		35					40					45			
Ile	Tyr	His	Ala	Ser	Thr	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Pro	Glu	Thr	Tyr	Pro
				85					90					95	
Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys				
			100					105							

<210> 303
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 303

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro
1				5					10					15	
Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	His
			20					25					30		
Ser	Ser	Gly	Tyr	His	Tyr	Leu	Asp	Trp	Tyr	Val	Gln	Lys	Pro	Gly	Gln
		35					40					45			
Ser	Pro	Gln	Leu	Leu	Ile	Tyr	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val
	50					55					60				
Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys
65					70					75					80
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Ile	Tyr	Tyr	Cys	Met	Gln
				85					90					95	
Ala	Leu	Gln	Thr	Pro	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 304

<211> 108
 <212> PRT
 <213> Homo sapiens

<400> 304

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val
1				5					10					15	
Gly	Asp	Thr	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Gly	Ile	Thr	Asn
			20					25					30		
Tyr	Leu	Ala	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Ser	Leu
		35					40					45			
Met	Tyr	Gly	Ala	Tyr	Lys	Leu	Gln	Tyr	Gly	Val	Pro	Thr	Lys	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Arg	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Tyr	Gln	Thr	Tyr	Pro
				85					90					95	
Phe	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Leu	Lys				
			100					105							

<210> 305
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 305

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Ser	Ala	Ser	Val
1				5					10					15	
Gly	Asp	Arg	Val	Ser	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Val	Ile	Gly	Asn
			20					25					30		
Tyr	Leu	Ala	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Lys	Arg	Leu
		35					40					45			
Ile	Tyr	Gly	Ala	Ser	His	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Ser	Ser	Ile	Pro
				85					90					95	
Tyr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys				
			100					105							

<210> 306
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 306

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Met	Ser	Pro
1				5					10					15	
Gly	Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ser	Val	Lys	Met
			20					25					30		
Asn	Leu	Ala	Trp	Tyr	Gln	His	Lys	Leu	Gly	Gln	Ala	Pro	Arg	Leu	Leu
		35					40					45			
Ile	Tyr	Gly	Ala	Ser	Ser	Arg	Ala	Thr	Gly	Ile	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Arg	Leu	Glu
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Ala	Asn	Trp	Pro
				85					90					95	
Phe	His	Phe	Gly	Pro	Gly	Thr	Thr	Val	Asp	Ile	Lys				
			100					105							

<210> 307
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 307

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Thr	Leu	Ser	Ala	Ser	Ile
1				5					10					15	
Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Thr	Ile	Asn	Asn
			20					25					30		
Trp	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Gln	Leu	Leu
		35					40					45			
Ile	Tyr	Lys	Thr	Ser	Asn	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80
Val	Asp	Asp	Phe	Ala	Thr	Tyr	His	Cys	Gln	Gln	Tyr	Lys	Ala	Phe	Pro
				85					90					95	
Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ser	Lys				
			100					105							

<210> 308
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 308

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ala	Leu	Ser	Ala	Ser	Val
1				5					10					15	
Gly	Asp	Arg	Val	Thr	Val	Thr	Cys	Arg	Ala	Ser	Gln	Asp	Ile	Glu	Asn
			20					25					30		
Tyr	Leu	Ala	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Ser	Leu
		35					40					45			
Ile	Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Pro	Lys	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Tyr	Ser	Ser	Tyr	Pro
				85					90					95	
Phe	Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys				
			100					105							

<210> 309
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 309

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Val	Ser	Ala	Ser	Val
1				5					10					15	
Gly	Asp	Arg	Val	Thr	Ile	Ile	Cys	Arg	Ala	Ser	Gln	Asp	Ile	His	Thr
			20					25					30		
Trp	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	His	Asn	Thr	Tyr	Pro
				85					90					95	
Leu	Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys				
			100					105							

<210> 310
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 310

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Val	Ser	Ala	Ser	Val
1				5					10					15	
Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Gly	Ile	Ser	Ser
			20					25					30		
Trp	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Arg	Leu
		35					40					45			
Ile	Tyr	Val	Ala	Ser	Ser	Leu	Gln	Asp	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75				80	
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	His	Asn	Ser	Tyr	Pro
				85					90					95	
Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys				
			100					105							

<210> 311
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 311

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Leu	Ser	Pro
1				5					10					15	
Gly	Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Arg
			20					25					30		
Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Phe
		35					40					45			
Ile	Tyr	Asp	Ala	Ser	Asn	Arg	Ala	Thr	Gly	Ile	Pro	Ala	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Leu	Arg	Gly	Leu	Glu
65					70					75				80	
Pro	Glu	Asp	Ser	Ala	Val	Tyr	Phe	Cys	Gln	Gln	Tyr	Ala	Thr	Leu	Pro
				85					90					95	

Arg Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105

<210> 312
<211> 108
<212> PRT
<213> Homo sapiens
<400> 312

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Arg Asn
20 25 30
Ala Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu
35 40 45
Ile Tyr Ala Ala Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asn Ser Tyr Pro
85 90 95
Phe Thr Phe Gly Pro Gly Thr Thr Val Asp Ile Lys
100 105

<210> 313
<211> 112
<212> PRT
<213> Homo sapiens
<400> 313

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15
Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asn
20 25 30
Ile Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45
Ser Pro Gln Leu Leu Ile Tyr Phe Gly Ser Asn Arg Ala Ser Gly Val
50 55 60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Lys
65 70 75 80
Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Arg Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 314
<211> 108
<212> PRT
<213> Homo sapiens

<400> 314

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15
Gly Asp Arg Val Thr Met Thr Cys Arg Ala Ser Gln Asp Ile Arg Asn
20 25 30
Asp Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Lys Arg Leu
35 40 45
Ile Tyr Thr Ala Ser Arg Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Gln Lys Asn Tyr Pro
85 90 95
Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 315
<211> 108
<212> PRT
<213> Homo sapiens

<400> 315

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Tyr Val
1 5 10 15
Gly Asp Arg Val Asn Ile Pro Cys Arg Ala Ser Gln Ser Val Asp Ser
20 25 30
Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45
Ile Tyr Lys Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Ser Val Ser Ser Leu Gln
65 70 75 80

Pro Asp Asp Phe Val Thr Tyr Tyr Cys Gln Gln Tyr Lys Ser Phe Pro
85 90 95

Phe Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 316
<211> 128
<212> PRT
<213> Homo sapiens

<400> 316

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr
20 25 30

Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Val Leu His Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
115 120 125

<210> 317
<211> 115
<212> PRT
<213> Homo sapiens

<400> 317

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr
20 25 30

Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Ile Leu His Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 318
<211> 115
<212> PRT
<213> Homo sapiens

<400> 318

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr
20 25 30

Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Val Leu Leu Asp Lys Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 319
<211> 115
<212> PRT
<213> Homo sapiens

<400> 319

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr
 20 25 30
 Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Val Leu Phe Asp Asn Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 Val Ser Ser
 115

<210> 320
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 320

Ser Ile Ala Ala Asp Arg Thr Asp Tyr
 1 5

<210> 321
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 321

Ser Ile Ala Ala Ser Arg Thr Asp Tyr
 1 5

<210> 322
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 322

Ser Ile Ala Ser Ala Gly Thr Asp His
 1 5

<210> 323
 <211> 9

<212> PRT
<213> Homo sapiens

<400> 323

Ser Ile Ala Ser Ala Arg Thr Asp Ser
1 5

<210> 324
<211> 112
<212> PRT
<213> Homo sapiens

<400> 324

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Asn Thr Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Gly Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 325
<211> 13
<212> PRT
<213> Homo sapiens

<400> 325

Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn Thr Val Asn
1 5 10

<210> 326
<211> 13
<212> PRT
<213> Homo sapiens

<400> 326

Ser Gly Ser Asn Ser Asn Val Gly Thr Lys Thr Val Asn
 1 5 10

<210> 327
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 327

Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn Thr Val Asn
 1 5 10

<210> 328
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 328

Ser Gly Gly Ser Ser Asn Ile Gly Ser Asn Thr Val Asn
 1 5 10

<210> 329
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 329

Ser Gly Ser Ser Ser Asn Ile Gly Ser Lys Thr Val Asn
 1 5 10

<210> 330
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 330

Ser Gly Ser Asn Ser Asn Ile Gly Ser Lys Thr Val Asn
 1 5 10

<210> 331
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 331

Ser Gly Ser Ser Ser Asn Ile Gly Thr Asn Asn Val Asn
 1 5 10

<210> 332
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 332

Gln	Asp	Ile	Val	Met	Thr	Gln	Thr	Pro	Pro	Ser	Leu	Pro	Val	Asn	Pro
1				5					10					15	
Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	His
			20					25					30		
Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln
		35					40					45			
Ser	Pro	Gln	Leu	Leu	Ile	Ser	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val
	50					55					60				
Pro	Ala	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys
65					70					75					80
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln
				85					90					95	
Ala	Leu	Gln	Thr	Ile	Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys
			100					105					110		

<210> 333
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 333

Ser	Asn	Asn	Gln	Arg	Pro	Ser
1				5		

<210> 334
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 334

Ser	Asn	Thr	Gln	Arg	Pro	Ser
1				5		

<210> 335
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 335

Ser Asp Asp Gln Arg Pro Ser
1 5

<210> 336

<211> 7

<212> PRT

<213> Homo sapiens

<400> 336

Asn Ser Ser Gln Arg Pro Ser
1 5

<210> 337

<211> 7

<212> PRT

<213> Homo sapiens

<400> 337

Asn Asn Ile Gln Arg Pro Ser
1 5

<210> 338

<211> 7

<212> PRT

<213> Homo sapiens

<400> 338

Met Asn Tyr Glu Arg Pro Ser
1 5

<210> 339

<211> 7

<212> PRT

<213> Homo sapiens

<400> 339

Ser His His Arg Arg Pro Ser
1 5

<210> 340

<211> 112

<212> PRT

<213> Homo sapiens

<400> 340

Gln	Asp	Ile	Val	Met	Thr	Gln	Thr	Pro	Pro	Ser	Leu	Pro	Val	Asn	Pro
1				5					10					15	
Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	His
			20					25					30		
Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln
		35					40					45			
Ser	Pro	Gln	Leu	Leu	Ile	Ser	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val
	50					55					60				
Pro	Ala	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys
65					70					75					80
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln
				85					90					95	
Ala	Leu	Gln	Thr	Ile	Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys
			100					105					110		

<210> 341
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 341

Ala	Ala	Trp	Asp	Asp	Ser	Leu	Asn	Gly	Pro	Val
1				5					10	

<210> 342
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 342

Ala	Ala	Trp	Asp	Asp	Ser	Leu	Asn	Gly	Pro	Leu
1				5					10	

<210> 343
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 343

Ala	Ala	Trp	Asp	Asp	Ser	Leu	Ser	Gly	Pro	Val
1				5					10	

<210> 344

<211> 112
 <212> PRT
 <213> Homo sapiens

<400> 344

Gln	Asp	Ile	Val	Met	Thr	Gln	Thr	Pro	Pro	Ser	Leu	Pro	Val	Asn	Pro
1				5					10					15	
Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	His
			20					25					30		
Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln
		35					40					45			
Ser	Pro	Gln	Leu	Leu	Ile	Ser	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val
	50					55					60				
Pro	Ala	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys
65					70					75					80
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln
				85					90					95	
Ala	Leu	Gln	Thr	Ile	Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys
			100					105					110		

<210> 345
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 345

Gln	Ser	Glu	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ser	Asn
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 346
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 346

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ile	Asn
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70				75					80	
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 347
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 347

Gln	Ser	Val	Leu	Thr	Gln	Ser	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Asn	Ser	Asn	Val	Gly	Thr	Lys
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Val	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ser	Asn	Thr	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70				75					80	
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Arg	Val	Thr	Val	Leu		
			100					105					110		

<210> 348
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 348

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ser	Asn
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 349
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 349

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro
1				5					10					15	
Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	His
			20					25					30		
Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln
		35					40					45			
Ser	Pro	Gln	Leu	Leu	Ile	Tyr	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val
	50					55					60				
Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys
65					70					75					80
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln
				85					90					95	
Ala	Leu	Gln	Ala	Ile	Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys
			100					105					110		

<210> 350
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 350

Gln	Ser	Ala	Leu	Thr	Gln	Ser	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Asn	Ser	Asn	Val	Gly	Thr	Lys
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Val	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ser	Asn	Thr	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Arg	Val	Thr	Val	Leu		
			100					105					110		

<210> 351
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 351

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Glu	Thr	Asn
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	

Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu
			100					105					110

<210> 352

<211> 110

<212> PRT

<213> Homo sapiens

<400> 352

Gln	Tyr	Glu	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	

Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ser	Asn
			20					25					30		

Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			

Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				

Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80

Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	

Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu
			100					105					110

<210> 353

<211> 112

<212> PRT

<213> Homo sapiens

<400> 353

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro
1				5					10					15	

Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	His
			20					25					30		

Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln
		35					40					45			

Ser	Pro	Gln	Leu	Leu	Ile	Tyr	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val
	50					55					60				

Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys
65					70					75					80

Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln
				85					90					95	

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 354

<211> 110

<212> PRT

<213> Homo sapiens

<400> 354

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 355

<211> 110

<212> PRT

<213> Homo sapiens

<400> 355

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 356

<211> 117

<212> PRT

<213> Homo sapiens

<400> 356

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asp Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Pro Ser
50 55 60

Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser
65 70 75 80

Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
85 90 95

Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Val Phe Gly Gly Gly Thr
100 105 110

Lys Leu Thr Val Leu
115

<210> 357

<211> 110

<212> PRT

<213> Homo sapiens

<400> 357

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 358
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 358

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Glu	Thr	Asn
			20					25			*		30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
			35				40					45			
Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 359
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 359

Phe	Tyr	Ser	His	Ser	Ala	Gln	Tyr	Glu	Leu	Thr	Gln	Pro	Pro	Ser	Ala
1				5					10					15	
Ala	Gly	Thr	Pro	Gly	Gln	Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Gly	Ser
			20					25					30		
Ser	Asn	Ile	Gly	Ser	Asn	Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly
	35						40					45			

Thr Ala Pro Lys Leu Leu Ile Tyr Asn Ser Ser Gln Arg Pro Ser Gly
 50 55 60
 Val Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu
 65 70 75 80
 Ala Ile Ser Gly Leu Gln Ser Gln Asp Glu Ala Asp Tyr Tyr Cys Ala
 85 90 95
 Ala Trp Asp Asp Ser Leu Asn Gly Pro Leu Phe Gly Gly Gly Thr Lys
 100 105 110
 Leu Thr Val Leu Gly Gln Pro Lys Ala Ala Pro
 115 120

<210> 360
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 360

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15
 Ser Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Lys
 20 25 30
 Thr Val Asn Trp Tyr Gln Gln Phe Pro Arg Ala Ala Pro Lys Leu Leu
 35 40 45
 Ile His Asn Asn Ile Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80
 Ser Asp Asp Glu Gly Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95
 Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 361
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 361

Gln Ser Ala Leu Thr Gln Pro Pro Ser Thr Ser Gly Thr Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser Asn Ile Gly Ser Lys
 20 25 30

Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Met	Asn	Tyr	Glu	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Ser	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 362
 <211> 110
 <212> PRT
 <213> Homo sapiens

 <400> 362

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ile	Asn
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 363
 <211> 110
 <212> PRT
 <213> Homo sapiens

 <400> 363

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ala	Gly	Thr	Pro	Gly	Gln
1				5					10					15	

Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Gly	Ser	Ser	Asn	Ile	Gly	Ser	Asn
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Asn	Ser	Ser	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Arg	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Gln	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Leu	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 364
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 364

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro
1				5					10					15	
Gly	Gln	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Asn
			20					25					30		
Ile	Asp	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln
	35						40					45			
Ser	Pro	Gln	Leu	Leu	Ile	Tyr	Phe	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val
	50					55					60				
Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Lys
65					70					75					80
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln
				85					90					95	
Ala	Leu	Arg	Ala	Ile	Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys
			100					105					110		

<210> 365
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 365

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro
1				5					10					15	

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
 20 25 30

Arg Asn Gly Tyr Asn Phe Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Ser Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 366

<211> 110

<212> PRT

<213> Homo sapiens

<400> 366

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gln Thr Pro Gly Gln
 1 5 10 15

Thr Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Thr Asn
 20 25 30

Asn Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

Ile Ser Ser His His Arg Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Ala Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 367

<211> 112

<212> PRT

<213> Homo sapiens

<400> 367

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
 20 25 30
 Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95
 Ala Leu Gln Ser Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 368
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 368

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn
 20 25 30
 Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80
 Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95
 Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 369
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 369

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
 20 25 30
 Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Val Arg Ser Ile Ala Ala Asp Arg Thr Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120 125
 Leu Ala Pro
 130

<210> 370
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 370

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
 20 25 30
 Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Val Arg Ser Ile Ala Ser Ala Gly Thr Asp His Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120 125

Leu Ala Pro
 130

<210> 371
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 371

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
 20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Val Arg Ser Ile Ala Ser Ala Arg Thr Asp Ser Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120 125

Leu Ala Pro
 130

<210> 372
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 372

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
 20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Val Arg Ser Ile Ala Ala Ser Arg Thr Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120 125

Leu Ala Pro
 130

<210> 373
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 373

Glu Arg Ser Val Ala Val Phe Lys Ala Arg Pro Arg His Tyr Tyr Tyr
 1 5 10 15

Tyr Met Asp Val
 20

<210> 374
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 374

Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr Tyr Tyr
 1 5 10 15

Tyr Ile Asp Val
 20

<210> 375
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 375

Glu Gly Ser Ala Arg Val Val Lys Gly Pro Ala Arg Tyr Phe Tyr Tyr
 1 5 10 15

Tyr Met Asp Leu
20

<210> 376
<211> 20
<212> PRT
<213> Homo sapiens

<400> 376

Glu Gly Ser Ser Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr Tyr Tyr
1 5 10 15

Tyr Met Asp Ala
20

<210> 377
<211> 9
<212> PRT
<213> Homo sapiens

<400> 377

Gln Gln Thr Tyr Ser Thr Pro Arg Thr
1 5

<210> 378
<211> 9
<212> PRT
<213> Homo sapiens

<400> 378

Gln Gln Ser Tyr Ser Thr Pro Arg Thr
1 5

<210> 379
<211> 9
<212> PRT
<213> Homo sapiens

<400> 379

Gln Gln Ser Asn Ser Ile Pro Arg Thr
1 5

<210> 380
<211> 9
<212> PRT
<213> Homo sapiens

<400> 380

Gln Gln Ser Tyr Thr Thr Pro Arg Thr
1 5

<210> 381

<211> 7

<212> PRT

<213> Homo sapiens

<400> 381

Ala Ala Ser Asn Leu Gln Ser
1 5

<210> 382

<211> 7

<212> PRT

<213> Homo sapiens

<400> 382

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 383

<211> 7

<212> PRT

<213> Homo sapiens

<400> 383

Ala Ala Tyr Thr Leu Gln Ser
1 5

<210> 384

<211> 7

<212> PRT

<213> Homo sapiens

<400> 384

Ser Ala Ser Ser Leu Gln Ser
1 5

<210> 385

<211> 7

<212> PRT

<213> Homo sapiens

<400> 385

Asp Ala Ser Thr Leu Gln Asn
1 5

<210> 386
<211> 7
<212> PRT
<213> Homo sapiens

<400> 386

Ala Ala Ser Thr Leu Gln Ser
1 5

<210> 387
<211> 7
<212> PRT
<213> Homo sapiens

<400> 387

Gly Ala Ser Ser Leu Gln Ser
1 5

<210> 388
<211> 11
<212> PRT
<213> Homo sapiens

<400> 388

Arg Ala Ser Gln Thr Ile Lys Asn Tyr Leu Asn
1 5 10

<210> 389
<211> 11
<212> PRT
<213> Homo sapiens

<400> 389

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 390
<211> 11
<212> PRT
<213> Homo sapiens

<400> 390

Arg Ala Ser Gln Ser Ile Ser Arg Tyr Leu Asn
1 5 10

<210> 391
<211> 11
<212> PRT
<213> Homo sapiens

<400> 391

Arg Ala Ser Arg Gly Val Ser Thr Ser Leu Asn
1 5 10

<210> 392
<211> 11
<212> PRT
<213> Homo sapiens

<400> 392

Arg Ala Ser Gln Thr Ile Ser Lys Asn Leu Asn
1 5 10

<210> 393
<211> 11
<212> PRT
<213> Homo sapiens

<400> 393

Arg Ala Ser Arg Arg Ile Gly Thr Tyr Leu Asn
1 5 10

<210> 394
<211> 11
<212> PRT
<213> Homo sapiens

<400> 394

Arg Ala Ser Gln Ser Ile Arg Ser Tyr Leu Asn
1 5 10

<210> 395
<211> 11
<212> PRT
<213> Homo sapiens

<400> 395

Arg Ala Ser Gln Thr Ile Asn Ser Tyr Leu Asn
1 5 10

<210> 396
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 396

Arg Ala Ser Gln Ser Ile Asn Arg Trp Leu Ala
 1 5 10

<210> 397
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 397

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Arg Ser Val Ala Val Phe Lys Ala Arg Pro Arg His Tyr
 100 105 110

Tyr Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser
 115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 130 135 140

<210> 398
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 398

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr
 100 105 110
 Tyr Tyr Tyr Ile Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser
 115 120 125
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 130 135 140

<210> 399
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 399

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Gly Ser Ser Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr
 100 105 110
 Tyr Tyr Tyr Met Asp Ala Trp Gly Lys Gly Thr Thr Val Thr Val Ser
 115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 130 135 140

<210> 400

<211> 108

<212> PRT

<213> Homo sapiens

<400> 400

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Val Ser Val
 1 5 10 15

Gly Asp Arg Val Ile Ile Thr Cys Arg Ala Ser Gln Thr Ile Lys Asn
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Ala Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Thr Tyr Ser Thr Pro
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 401

<211> 108

<212> PRT

<213> Homo sapiens

<400> 401

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 402

<211> 108

<212> PRT

<213> Homo sapiens

<400> 402

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Ala Tyr Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Arg Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Ser Ile Pro
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Thr Val Glu Ile Arg
 100 105

<210> 403

<211> 108

<212> PRT

<213> Homo sapiens

<400> 403

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 404
<211> 108
<212> PRT
<213> Homo sapiens

<400> 404

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 405
<211> 108
<212> PRT
<213> Homo sapiens

<400> 405

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 406

<211> 108

<212> PRT

<213> Homo sapiens

<400> 406

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Gly Val Ser Thr
20 25 30

Ser Leu Asn Trp Tyr Gln Ile Lys Pro Glu Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ala Ile Thr Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Pro Gly Thr Lys Val Glu Ile Lys
100 105

<210> 407

<211> 108

<212> PRT

<213> Homo sapiens

<400> 407

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 408

<211> 108

<212> PRT

<213> Homo sapiens

<400> 408

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Ser Lys
20 25 30

Asn Leu Asn Trp Tyr Gln Gln Lys Pro Gly Ser Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Gly Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Glu
100 105

<210> 409

<211> 108

<212> PRT

<213> Homo sapiens

<400> 409

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95
Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 410
<211> 108
<212> PRT
<213> Homo sapiens

<400> 410

Gln Asp Ile Gln Met Thr Gln Ser Pro Asp Ser Leu Ser Ala Ser Val
1 5 10 15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30
Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45
Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95
Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 411
<211> 108
<212> PRT
<213> Homo sapiens

<400> 411

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30
Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95
Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 412
<211> 108
<212> PRT
<213> Homo sapiens

<400> 412

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30
Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45
Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95
Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 413
<211> 108
<212> PRT
<213> Homo sapiens

<400> 413

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30
Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 414
<211> 108
<212> PRT
<213> Homo sapiens

<400> 414

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 415
<211> 108
<212> PRT
<213> Homo sapiens

<400> 415

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 416
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 416

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
 20 25 30
 Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 417
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 417

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Thr Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Arg Ile Gly Thr
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Ala Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Asp Ala Ser Thr Leu Gln Asn Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Thr Glu Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Val Ala Thr Tyr Phe Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 418
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 418

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Arg Ser
 20 25 30

Tyr Leu Asn Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 419
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 419

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
 20 25 30
 Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 420
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 420

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Asn Ser
 20 25 30
 Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asp Leu Leu
 35 40 45
 Ile Phe Gly Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Thr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 421
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 421

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Asn Arg
 20 25 30
 Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 422
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 422

Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala Ser
 1 5 10

<210> 423
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 423

Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser Ser
 1 5 10

<210> 424
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 424

Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala Ser
 1 5 10

<210> 425
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 425

Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile Ser
1 5 10

<210> 426

<211> 14

<212> PRT

<213> Homo sapiens

<400> 426

Thr Gly Thr Gly Ser Asp Val Gly Arg Tyr Ser His Val Ser
1 5 10

<210> 427

<211> 13

<212> PRT

<213> Homo sapiens

<400> 427

Ser Gly Gly Ser Ser Asn Ile Gly Leu Asn Pro Val Asn
1 5 10

<210> 428

<211> 11

<212> PRT

<213> Homo sapiens

<400> 428

Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr Ser
1 5 10

<210> 429

<211> 11

<212> PRT

<213> Homo sapiens

<400> 429

Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala Ser
1 5 10

<210> 430

<211> 14

<212> PRT

<213> Homo sapiens

<400> 430

Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr Asn Arg Val Ser
 1 5 10

<210> 431
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 431

Ser Gly Asp Thr Leu Arg Asn Lys Tyr Ala Ser
 1 5 10

<210> 432
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 432

Ser Gly Ser Ser Ser Asn Ile Gly Gly Asn Thr Val Asn
 1 5 10

<210> 433
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 433

Ser Gly Asp Lys Leu Arg Asn Lys Tyr Gly Ser
 1 5 10

<210> 434
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 434

Gln Asp Arg Lys Arg Pro Ser
 1 5

<210> 435
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 435

Gln Asp Lys Lys Arg Pro Ser
1 5

<210> 436

<211> 7

<212> PRT

<213> Homo sapiens

<400> 436

Ala Val Thr Asn Arg Pro Ser
1 5

<210> 437

<211> 7

<212> PRT

<213> Homo sapiens

<400> 437

Ser Asn Asn Gln Arg Pro Ser
1 5

<210> 438

<211> 7

<212> PRT

<213> Homo sapiens

<400> 438

Gln Asn Arg Lys Arg Pro Ser
1 5

<210> 439

<211> 112

<212> PRT

<213> Homo sapiens

<400> 439

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Arg His
20 25 30

Asn Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 440

<211> 7

<212> PRT

<213> Homo sapiens

<400> 440

Gln Ser Ser Gln Arg Pro Ser
1 5

<210> 441

<211> 7

<212> PRT

<213> Homo sapiens

<400> 441

Glu Val Ser Asn Arg Pro Ser
1 5

<210> 442

<211> 112

<212> PRT

<213> Homo sapiens

<400> 442

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asn
20 25 30

Ile Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Phe Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Arg Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 443
<211> 7
<212> PRT
<213> Homo sapiens

<400> 443

Arg Asn Asn Gln Arg Pro Ser
1 5

<210> 444
<211> 9
<212> PRT
<213> Homo sapiens

<400> 444

Gln Ser Trp Asp Ser Ser Ser Val Ile
1 5

<210> 445
<211> 9
<212> PRT
<213> Homo sapiens

<400> 445

Gln Ala Trp Asp Ser Ser Ser Val Ile
1 5

<210> 446
<211> 9
<212> PRT
<213> Homo sapiens

<400> 446

Gln Thr Trp Asp Ser Ser Ser Val Ile
1 5

<210> 447
<211> 9
<212> PRT
<213> Homo sapiens

<400> 447

Gln Thr Trp Asp Arg Ser Ser Val Val
1 5

<210> 448
<211> 10
<212> PRT
<213> Homo sapiens

<400> 448

Gln Ser Tyr Thr Thr Thr Gly Thr Leu Ile
1 5 10

<210> 449
<211> 9
<212> PRT
<213> Homo sapiens

<400> 449

Ser Ser Tyr Thr Asn Ser Ser Val Ile
1 5

<210> 450
<211> 9
<212> PRT
<213> Homo sapiens

<400> 450

Gln Ala Trp Asp Asn Ser Ala Val Ile
1 5

<210> 451
<211> 8
<212> PRT
<213> Homo sapiens

<400> 451

Gln Thr Trp Asp Thr Ser Ile Leu
1 5

<210> 452
<211> 9
<212> PRT
<213> Homo sapiens

<400> 452

Ser Ser Tyr Arg Asn Thr Gly Pro Leu
1 5

<210> 453
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 453

Ser	Ile	Trp	Ser	Ser	Gly	Gly	Leu	Thr	Lys	Glu	Ala	Asp	Ser	Val	Lys
1				5					10					15	

Gly

<210> 454
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 454

Asn	Ser	Tyr	Thr	Asn	Ser	Ala	Thr	Leu	Val
1				5				10	

<210> 455
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 455

Phe	Tyr	Ser	His	Ser	Ala	Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Val
1				5					10					15	

Ser	Val	Ser	Pro	Gly	Gln	Thr	Ala	Ser	Ile	Thr	Cys	Ala	Gly	Asp	Glu
			20					25					30		

Leu	Gly	Asn	Lys	Tyr	Ala	Ser	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ser
		35					40					45			

Pro	Val	Leu	Val	Ile	Tyr	Gln	Asp	Arg	Lys	Arg	Pro	Ser	Gly	Ile	Pro
	50					55					60				

Glu	Arg	Phe	Ser	Gly	Ser	His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile
65					70				75						80

Ser	Gly	Thr	Gln	Ala	Leu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ser	Trp
			85						90					95	

Asp	Ser	Ser	Ser	Val	Ile	Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu
			100					105					110		

Ser	Gln	Pro	Lys	Ala	Ala	Pro
		115				

<210> 456
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 456

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln
1				5					10					15	
Thr	Ala	Ser	Ile	Thr	Cys	Ser	Gly	Asp	Ile	Leu	Gly	Asn	Lys	Tyr	Ser
			20					25					30		
Ser	Trp	Tyr	Gln	Gln	Arg	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Ile	Tyr
		35					40					45			
Gln	Asp	Lys	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser
	50					55					60				
His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr	Gln	Ala	Met
65					70					75					80
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ala	Trp	Asp	Ser	Ser	Ser	Val	Ile
				85					90					95	
Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu						
			100					105							

<210> 457
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 457

Gln	Ser	Glu	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln
1				5					10					15	
Thr	Ala	Ser	Ile	Thr	Cys	Ser	Gly	Asp	Lys	Leu	Arg	Asn	Lys	Tyr	Ala
			20					25					30		
Ser	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Val	Leu	Val	Ile	Tyr
		35					40					45			
Gln	Asp	Arg	Lys	Arg	Pro	Ser	Glu	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser
	50					55					60				
His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr	Gln	Ala	Met
65					70					75					80
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Thr	Trp	Asp	Ser	Ser	Ser	Val	Ile
				85					90					95	
Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu						
			100					105							

<210> 458
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 458

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln
1				5					10					15	
Thr	Ala	Ser	Ile	Thr	Cys	Ser	Gly	Asp	Ile	Leu	Gly	Asn	Lys	Tyr	Ser
			20					25					30		
Ser	Trp	Tyr	Gln	Gln	Arg	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Ile	Tyr
		35					40					45			
Gln	Asp	Lys	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser
	50					55					60				
His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr	Gln	Ala	Met
65					70				75						80
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ala	Trp	Asp	Ser	Ser	Ser	Val	Ile
				85					90					95	
Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu						
			100					105							

<210> 459
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 459

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln
1				5					10					15	
Thr	Ala	Thr	Ile	Thr	Cys	Ser	Gly	Asn	Lys	Leu	Gly	Asn	Thr	Tyr	Ile
			20					25					30		
Ser	Trp	Tyr	Gln	Lys	Lys	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Ile	Tyr
		35					40					45			
Gln	Asp	Lys	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser
	50					55					60				
Asn	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Thr	Gly	Thr	Gln	Ser	Leu
65					70				75						80
Asp	Glu	Ser	Asp	Tyr	Tyr	Cys	Gln	Thr	Trp	Asp	Arg	Ser	Ser	Val	Val
				85					90					95	

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 460
<211> 119
<212> PRT
<213> Homo sapiens
<400> 460

Phe Tyr Ser His Ser Ala Gln Ser Glu Leu Thr Gln Pro Pro Ser Val
1 5 10 15
Ser Val Ser Pro Gly Gln Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys
20 25 30
Leu Arg Asn Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser
35 40 45
Pro Val Leu Val Ile Tyr Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro
50 55 60
Glu Arg Phe Ser Gly Ser His Ser Gly Asn Thr Ala Thr Leu Thr Ile
65 70 75 80
Ser Gly Thr Gln Ala Met Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp
85 90 95
Asp Ser Ser Ser Val Ile Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105 110
Gly Gln Pro Lys Ala Ala Pro
115

<210> 461
<211> 109
<212> PRT
<213> Homo sapiens
<400> 461

Gln Ser Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15
Ser Ile Thr Ile Ser Cys Thr Gly Thr Gly Ser Asp Val Gly Arg Tyr
20 25 30
Ser His Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
35 40 45
Ile Ile Tyr Ala Val Thr Asn Arg Pro Ser Gly Val Ser Ala Arg Phe
50 55 60
Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ser Glu Asp Glu Ala Thr Tyr His Cys Gln Ser Tyr Thr Thr Thr
85 90 95

Gly Thr Leu Ile Phe Gly Gly Gly Thr Asn Leu Thr Val
100 105

<210> 462

<211> 106

<212> PRT

<213> Homo sapiens

<400> 462

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Ile Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Phe
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 463

<211> 106

<212> PRT

<213> Homo sapiens

<400> 463

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile
20 25 30

Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu
65 70 75 80

Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 464

<211> 106

<212> PRT

<213> Homo sapiens

<400> 464

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile
20 25 30

Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu
65 70 75 80

Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 465

<211> 107

<212> PRT

<213> Homo sapiens

<400> 465

Gln Ser Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg
1 5 10 15

Val Thr Ile Ser Cys Ser Gly Gly Ser Ser Asn Ile Gly Leu Asn Pro
20 25 30

Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly
50 55 60

Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ala
65 70 75 80
Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Asn Ser Ser Val
85 90 95
Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 466
<211> 106
<212> PRT
<213> Homo sapiens

<400> 466

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15
Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr
20 25 30
Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr
35 40 45
Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile
65 70 75 80
Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile
85 90 95
Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 467
<211> 106
<212> PRT
<213> Homo sapiens

<400> 467

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15
Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala
20 25 30
Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 468
<211> 105
<212> PRT
<213> Homo sapiens
<400> 468

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly His
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Leu Val Leu Tyr
35 40 45

Gln Ser Ser Gln Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Ile Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Ala Gln Ser Ile
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Thr Ser Ile Leu Phe
85 90 95

Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 469
<211> 109
<212> PRT
<213> Homo sapiens
<400> 469

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr
20 25 30

Asn Arg Val Ser Trp Tyr Gln Gln Ser Pro Gly Thr Ala Pro Lys Leu
35 40 45

Ile Ile Phe Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60
Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Arg Asn Thr
85 90 95
Gly Pro Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 470
<211> 106
<212> PRT
<213> Homo sapiens

<400> 470

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15
Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser
20 25 30
Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45
Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80
Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
85 90 95
Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 471
<211> 106
<212> PRT
<213> Homo sapiens

<400> 471

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15
Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr
 35 40 45
 Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile
 85 90 95
 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 472
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 472

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15
 Thr Ala Ser Ile Thr Cys Ser Gly Asp Thr Leu Arg Asn Lys Tyr Ala
 20 25 30
 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
 35 40 45
 Gln Asp Arg Lys Arg Pro Ser Asn Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Val Met
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
 85 90 95
 Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105

<210> 473
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 473

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15
 Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr
 20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr
35 40 45

Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 474
<211> 106
<212> PRT
<213> Homo sapiens

<400> 474

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr
35 40 45

Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 475
<211> 110
<212> PRT
<213> Homo sapiens

<400> 475

Gln Tyr Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Gly Ser Asp Val Gly Arg Tyr
20 25 30

Ser His Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
35 40 45

Ile Ile Tyr Ala Val Thr Asn Arg Pro Ser Gly Val Ser Ala Arg Phe
50 55 60

Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ser Glu Asp Glu Ala Thr Tyr His Cys Gln Ser Tyr Thr Thr Thr
85 90 95

Gly Thr Leu Ile Phe Gly Gly Gly Thr Asn Leu Thr Val Leu
100 105 110

<210> 476
<211> 105
<212> PRT
<213> Homo sapiens
<400> 476

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly His
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Leu Val Leu Tyr
35 40 45

Gln Ser Ser Gln Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Ile Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Ala Gln Ser Ile
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Thr Ser Ile Leu Phe
85 90 95

Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 477
<211> 106
<212> PRT
<213> Homo sapiens
<400> 477

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr	Ala	Ser	Ile	Thr	Cys	Ser	Gly	Asp	Lys	Leu	Arg	Asn	Lys	Tyr	Ala
			20					25					30		
Ser	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Val	Leu	Val	Ile	Tyr
		35					40					45			
Gln	Asp	Arg	Lys	Arg	Pro	Ser	Glu	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser
	50					55					60				
His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr	Gln	Ala	Met
65					70					75					80
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Thr	Trp	Asp	Ser	Ser	Ser	Val	Ile
				85					90					95	
Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu						
			100					105							

<210> 478
 <211> 106
 <212> PRT
 <213> Homo sapiens

 <400> 478

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln
1				5					10					15	
Thr	Ala	Ser	Ile	Thr	Cys	Ser	Gly	Asp	Ile	Leu	Gly	Asn	Lys	Tyr	Ser
			20					25					30		
Ser	Trp	Tyr	Gln	Gln	Arg	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Ile	Tyr
		35					40					45			
Gln	Asp	Lys	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser
	50					55					60				
His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr	Gln	Ala	Met
65					70					75					80
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ala	Trp	Asp	Ser	Ser	Ser	Val	Ile
				85					90					95	
Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu						
			100					105							

<210> 479
 <211> 109
 <212> PRT
 <213> Homo sapiens

 <400> 479

Gln Ser Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15
 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr
 20 25 30
 Asn Arg Val Ser Trp Tyr Gln Gln Ser Pro Gly Thr Ala Pro Lys Leu
 35 40 45
 Ile Ile Phe Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
 50 55 60
 Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
 65 70 75 80
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Arg Asn Thr
 85 90 95
 Gly Pro Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 480
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 480

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Gly Asn
 20 25 30
 Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln
 65 70 75 80
 Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Tyr Thr Asn Ser Ala
 85 90 95
 Thr Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 481
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 481

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15
 Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser
 20 25 30
 Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Leu Leu Val Ile Tyr
 35 40 45
 Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
 85 90 95
 Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105

<210> 482
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 482

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15
 Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile
 20 25 30
 Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
 35 40 45
 Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu
 65 70 75 80
 Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val
 85 90 95
 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 483
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 483

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15
Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Gly
20 25 30
Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45
Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80
Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
85 90 95
Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 484

<211> 106

<212> PRT

<213> Homo sapiens

<400> 484

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15
Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala
20 25 30
Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45
Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Thr Met
65 70 75 80
Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile
85 90 95
Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 485

<211> 10

<212> PRT

<213> Homo sapiens

<400> 485

Val Gly Ile Ser Thr Tyr Gly Phe Asp Leu
1 5 10

<210> 486

<211> 10

<212> PRT

<213> Homo sapiens

<400> 486

Val Gly Met Ala Thr Tyr Gly Phe Asp Ile
1 5 10

<210> 487

<211> 10

<212> PRT

<213> Homo sapiens

<400> 487

Val Gly Met Ser Asn Tyr Gly Phe Asp Phe
1 5 10

<210> 488

<211> 10

<212> PRT

<213> Homo sapiens

<400> 488

Val Gly Met Ser Thr Tyr Gly Phe Asp Lys
1 5 10

<210> 489

<211> 10

<212> PRT

<213> Homo sapiens

<400> 489

Val Gly Met Tyr Asn Tyr Gly Phe Asp Ile
1 5 10

<210> 490

<211> 132

<212> PRT

<213> Homo sapiens

<400> 490

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Pro	Tyr
			20					25					30		
Trp	Met	Phe	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Gly	Ile	Val	Ser	Ser	Gly	Gly	Met	Thr	Gly	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Val	Gly	Met	Ala	Thr	Tyr	Gly	Phe	Asp	Ile	Trp	Gly	Gln	Gly
			100					105					110		
Thr	Met	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe
		115					120					125			
Pro	Leu	Ala	Pro												
			130												

<210> 491
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 491

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Pro	Tyr
			20					25					30		
Trp	Met	Phe	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Gly	Ile	Val	Ser	Ser	Gly	Gly	Met	Thr	Gly	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Val	Gly	Met	Ser	Asn	Tyr	Gly	Phe	Asp	Phe	Trp	Gly	Gln	Gly
			100					105					110		

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
115 120 125

Pro Leu Ala Pro
130

<210> 492
<211> 8
<212> PRT
<213> Homo sapiens

<400> 492

Met Gln Ala Leu Gln Thr Leu Thr
1 5

<210> 493
<211> 8
<212> PRT
<213> Homo sapiens

<400> 493

Met Gln Ala Leu Arg Ala Ile Thr
1 5

<210> 494
<211> 8
<212> PRT
<213> Homo sapiens

<400> 494

Met Gln Ala Leu Gln Ala Ile Thr
1 5

<210> 495
<211> 8
<212> PRT
<213> Homo sapiens

<400> 495

Met Gln Ala Leu Gln Ser Pro Thr
1 5

<210> 496
<211> 8
<212> PRT
<213> Homo sapiens

<400> 496

Met Gln Ala Leu Gln Ser Ile Thr
1 5

<210> 497
<211> 7
<212> PRT
<213> Homo sapiens

<400> 497

Met Gly Ser Asn Arg Ala Ser
1 5

<210> 498
<211> 7
<212> PRT
<213> Homo sapiens

<400> 498

Leu Gly Ser His Arg Ala Ser
1 5

<210> 499
<211> 7
<212> PRT
<213> Homo sapiens

<400> 499

Phe Gly Ser Asn Arg Ala Ser
1 5

<210> 500
<211> 132
<212> PRT
<213> Homo sapiens

<400> 500

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Val Gly Ile Ser Thr Tyr Gly Phe Asp Leu Trp Gly Gln Gly
 100 105 110
 Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125
 Pro Leu Ala Pro
 130

<210> 501
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 501

Arg Ser Ser Gln Ser Leu Leu His Ser Thr Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

<210> 502
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 502

Arg Ser Ser Gln Ser Leu Leu His Gly Asn Gly Asn Asn Tyr Leu Asp
 1 5 10 15

<210> 503
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 503

Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

<210> 504
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 504

Arg Ser Ser Gln Ser Leu Leu His Ser Ser Gly Tyr His Tyr Leu Asp
 1 5 10 15

<210> 505

<211> 16

<212> PRT

<213> Homo sapiens

<400> 505

Arg Ser Ser Gln Ser Leu Leu Asn Ile Asp Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

<210> 506

<211> 16

<212> PRT

<213> Homo sapiens

<400> 506

Arg Ser Ser Gln Ser Leu Leu His Arg Asn Gly Tyr Asn Phe Leu Asp
 1 5 10 15

<210> 507

<211> 16

<212> PRT

<213> Homo sapiens

<400> 507

Arg Ser Ser Gln Ser Leu Arg His Asn Asn Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

<210> 508

<211> 112

<212> PRT

<213> Homo sapiens

<400> 508

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 509

<211> 132

<212> PRT

<213> Homo sapiens

<400> 509

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Val Gly Met Ser Thr Tyr Gly Phe Asp Lys Trp Gly Gln Gly
100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
115 120 125

Pro Leu Ala Pro
130

<210> 510

<211> 132

<212> PRT

<213> Homo sapiens

<400> 510

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Val Gly Met Tyr Asn Tyr Gly Phe Asp Ile Trp Gly Gln Gly
 100 105 110
 Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125

Pro Leu Ala Pro
 130

<210> 511
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 511

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15
 Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
 20 25 30
 Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60
 Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95
 Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 512
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Consensus amino acid sequence of the CDR3 regions of affinity
matured clones of 807A-M0028-B02

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> X = S or G

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> X = V or I

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X = L, H or F

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> X = Y, N or K

<400> 512

Xaa Xaa Leu Xaa Asp Xaa
1 5

<210> 513
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Consensus amino acid sequence of the CDR3 regions of affinity
matured clones of 807B-M0004-A03

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X = A or S

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> X = D, S or A

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> X = R or G

<220>
<221> MISC_FEATURE

<222> (9)..(9)
<223> X = Y, H or S

<400> 513

Ser Ile Ala Xaa Xaa Xaa Thr Asp Xaa
1 5

<210> 514
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Consensus amino acid sequence of the CDR3 regions of affinity
matured clones of 807B-M0004-H03

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> X = E or D

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> X = G or R

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X = A, S or V

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> X = G, R or A

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> X = V or F

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> X = G or A

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> X = P or R

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> X = A, P or R

<220>
 <221> MISC_FEATURE
 <222> (13)..(13)
 <223> X = Y or H

 <220>
 <221> MISC_FEATURE
 <222> (14)..(14)
 <223> X = Y or F

 <220>
 <221> misc_feature
 <222> (18)..(18)
 <223> Xaa can be any naturally occurring amino acid

 <220>
 <221> MISC_FEATURE
 <222> (20)..(20)
 <223> X = V, L or A

<400> 514

Xaa	Xaa	Ser	Xaa	Xaa	Val	Xaa	Lys	Xaa	Xaa	Xaa	Arg	Xaa	Xaa	Tyr	Tyr
1				5					10					15	

Tyr	Xaa	Asp	Xaa
			20

<210> 515
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Consensus amino acid sequence of the CDR3 regions of affinity
 matured clones of 807B-M0009-F06

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> X = M or I

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = S or A

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X = T or N

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)

<223> X = A or G

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> X = I, L, F or K

<400> 515

Val Gly Xaa Xaa Xaa Tyr Xaa Phe Asp Xaa
1 5 10

<210> 516

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Consensus amino acid sequence of the CDR3 regions of affinity
matured clones of 807B-M0009-F06

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> X = V or I

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> X = L, H or F

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> X = K, Y or N

<400> 516

Gly Xaa Leu Xaa Asp Xaa
1 5

<210> 517

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Consensus amino acid sequence of the CDR3 regions of affinity
matured clones of 807A-M0004-A03

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> X = S or A

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X = S or A

<220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> X = R or G

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> X = H or Y

<400> 517

Ser Ile Ala Xaa Xaa Xaa Thr Asp Xaa
 1 5

<210> 518
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Amino acid sequence of the VL chains of the Germline-corrected antibodies

<400> 518

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Asp Ile Arg Asn His
 20 25 30

Leu Gly Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu Ile
 35 40 45

Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Tyr Gly
 50 55 60

Ser Gly Tyr Gly Arg Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Ser Phe Pro Tyr
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 519
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Amino acid sequence of the CL chains of the Germline-corrected antibodies

<400> 519

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 520
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Amino acid sequence of the VL chains of the Germline-corrected antibodies

<400> 520

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Asp Ile Arg Asn His
20 25 30

Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
35 40 45

Tyr Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Ser Phe Pro Tyr
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 521

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Amino acid sequence of the CL chains of the Germline-corrected
 antibodies

<400> 521

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 100 105

<210> 522

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected antibodies

<400> 522

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Asn Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp His Asp Gly Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 523

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Amino acid sequence of the CL chains of the Germline-corrected antibodies

<400> 523

Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser
1 5 10 15

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 524

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected
antibodies

<400> 524

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asn Ile Asp Asn Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Arg
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 525

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected
antibodies

<400> 525

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His Ser
20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
50 55 60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95

Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 526

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected
antibodies

<400> 526

Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Ser Ile Thr Cys Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp Asp Ser Ser Ser Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 527

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Amino acid sequence of the CL chains of the Germline-corrected
antibodies

<400> 527

Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser
1 5 10 15

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105